

Appendix RF test data for 5G WIFI

1. Duty Cycle

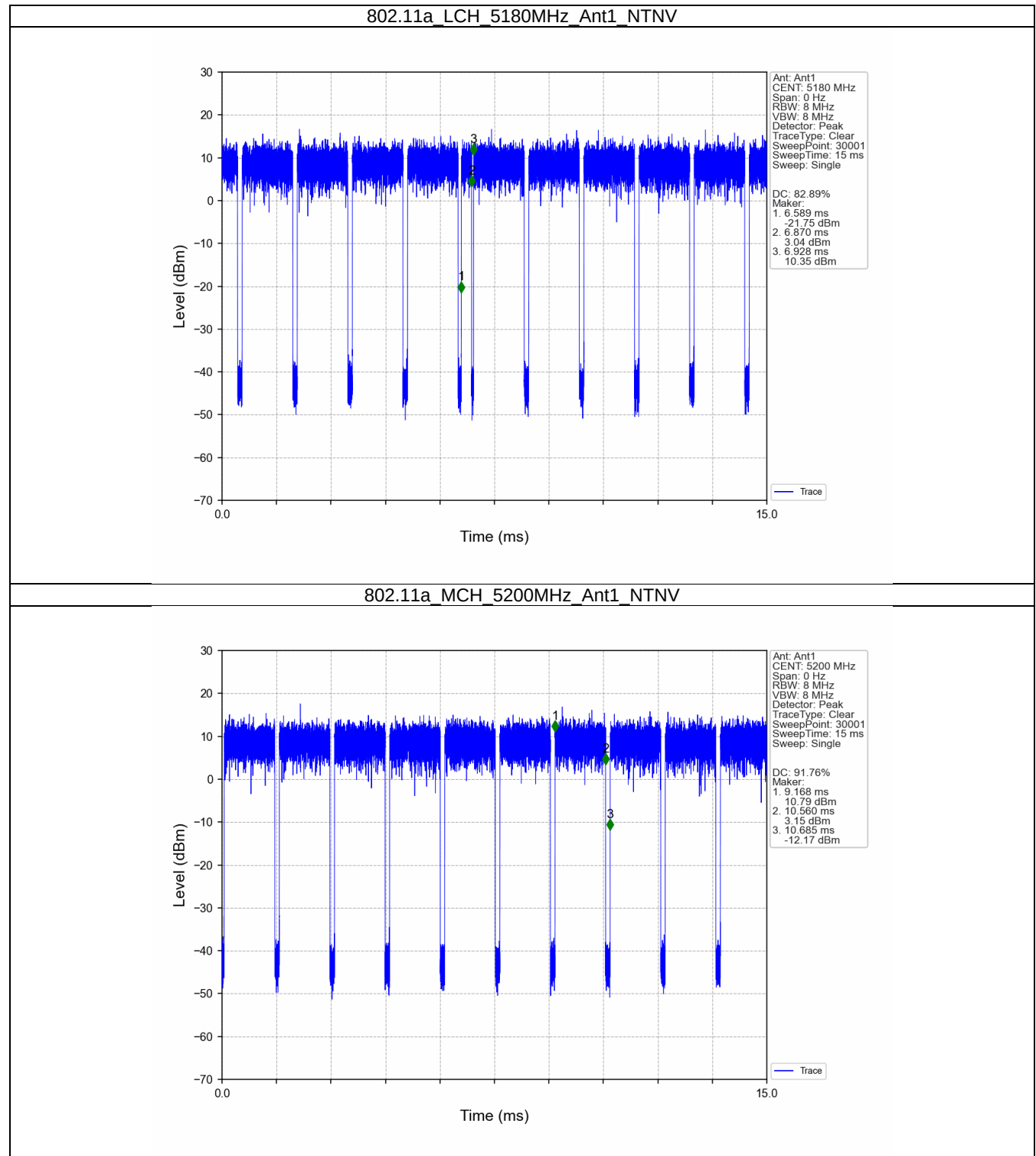
1.1 Test Result

1.1.1 Ant1

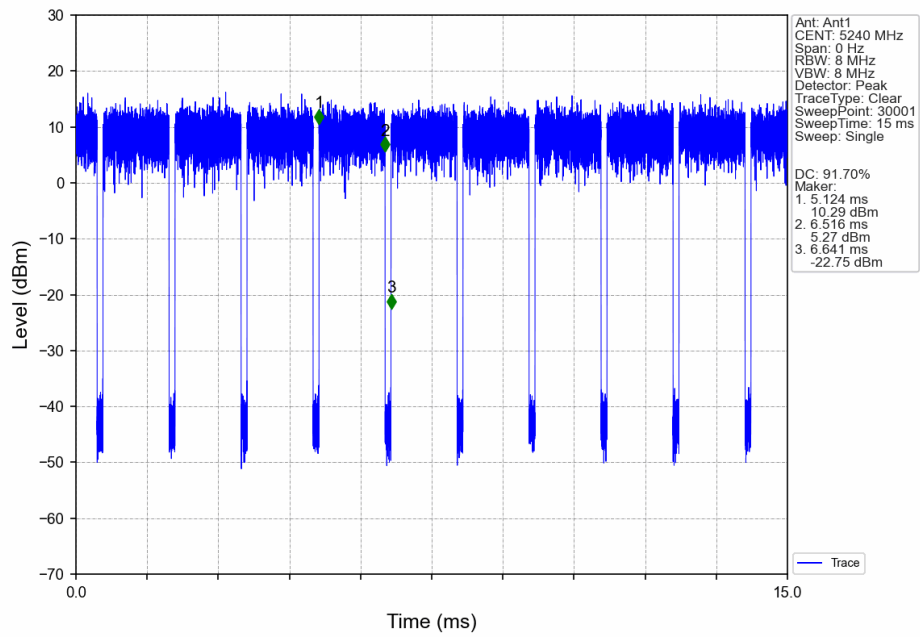
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	0.281	0.339	82.89	0.81	10.83
		5200	/	/	1.392	1.517	91.76	0.37	0.03
		5240	/	/	1.392	1.518	91.70	0.38	0.00
		5745	/	/	1.393	1.554	89.64	0.47	4.35
		5785	/	/	1.392	1.518	91.70	0.38	0.06
		5825	/	/	1.392	1.517	91.76	0.37	0.00
802.11n (HT20)	SISO	5180	/	/	1.301	1.444	90.10	0.45	1.15
		5200	/	/	1.301	1.426	91.23	0.40	0.03
		5240	/	/	1.300	1.425	91.23	0.40	0.04
		5745	/	/	1.300	1.425	91.23	0.40	0.00
		5785	/	/	1.301	1.427	91.17	0.40	0.06
		5825	/	/	1.301	1.426	91.23	0.40	2.36
802.11n (HT40)	SISO	5190	/	/	0.648	0.773	83.83	0.77	4.13
		5230	/	/	0.649	0.773	83.96	0.76	0.03
		5755	/	/	0.648	0.773	83.83	0.77	0.03
		5795	/	/	0.649	0.774	83.85	0.76	4.12
802.11ac (VHT20)	SISO	5180	/	/	0.241	0.315	76.51	1.16	17.23
		5200	/	/	1.312	1.438	91.24	0.40	0.03
		5240	/	/	1.312	1.438	91.24	0.40	0.03
		5745	/	/	1.312	1.438	91.24	0.40	0.03
		5785	/	/	1.313	1.438	91.31	0.39	0.03
		5825	/	/	1.312	1.438	91.24	0.40	0.03
802.11ac (VHT40)	SISO	5190	/	/	0.652	0.777	83.91	0.76	4.08
		5230	/	/	0.652	0.777	83.91	0.76	4.08
		5755	/	/	0.652	0.777	83.91	0.76	4.08
		5795	/	/	0.652	0.777	83.91	0.76	0.03
802.11ax (HEW20)	SISO	5180	SU	/	1.313	1.438	91.31	0.39	0.00
		5200	SU	/	1.312	1.438	91.24	0.40	0.03
		5240	SU	/	1.312	1.438	91.24	0.40	0.03
		5745	SU	/	1.313	1.438	91.31	0.39	0.31
		5785	SU	/	1.313	1.439	91.24	0.40	0.03
		5825	SU	/	1.312	1.438	91.24	0.40	0.03
802.11ax (HEW40)	SISO	5190	SU	/	0.652	0.777	83.91	0.76	4.15
		5230	SU	/	0.652	0.777	83.91	0.76	0.03
		5755	SU	/	0.652	0.777	83.91	0.76	0.03
		5795	SU	/	0.653	0.777	84.04	0.76	4.12

1.2 Test Graph

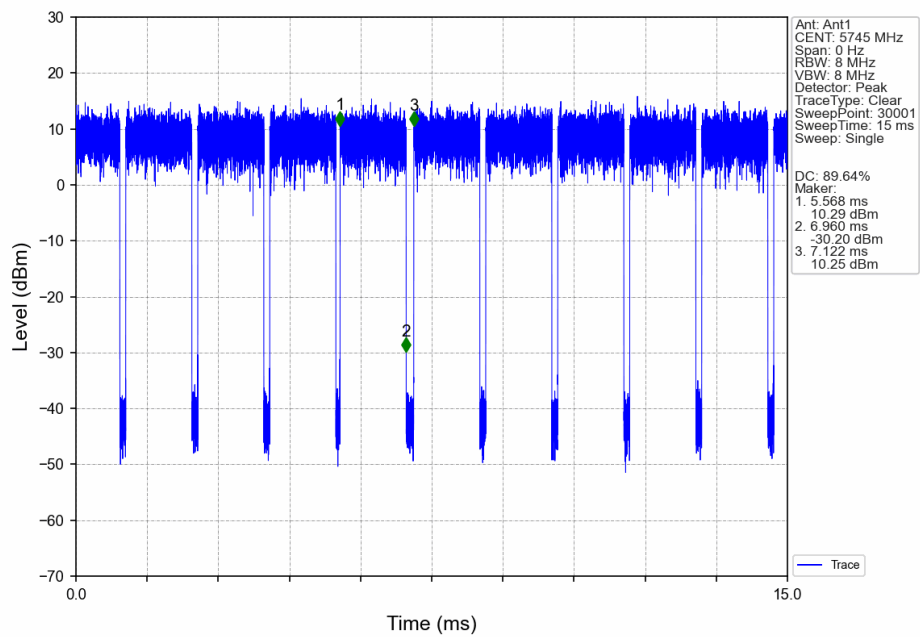
1.2.1 Ant1



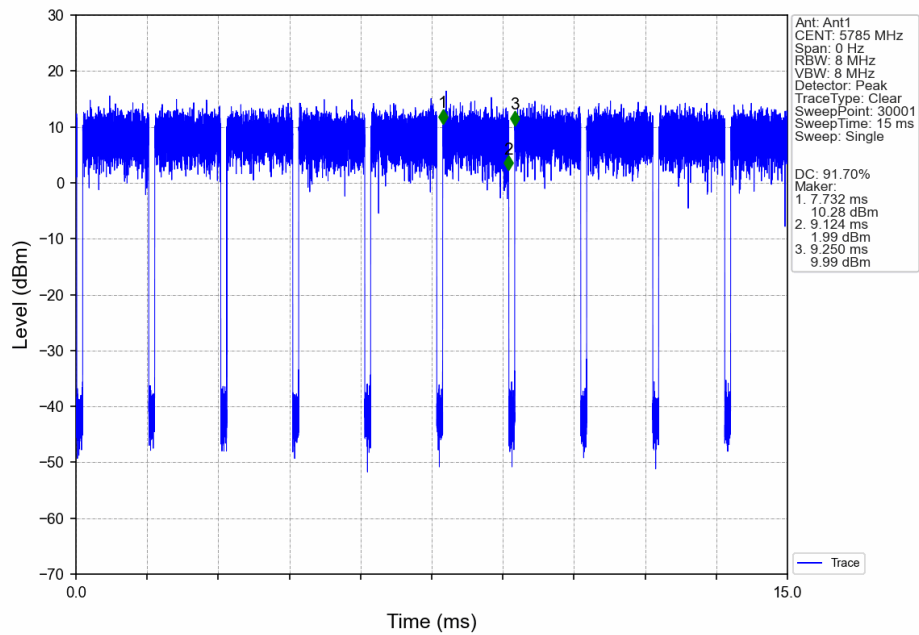
802.11a_HCH_5240MHz_Ant1_NTNV



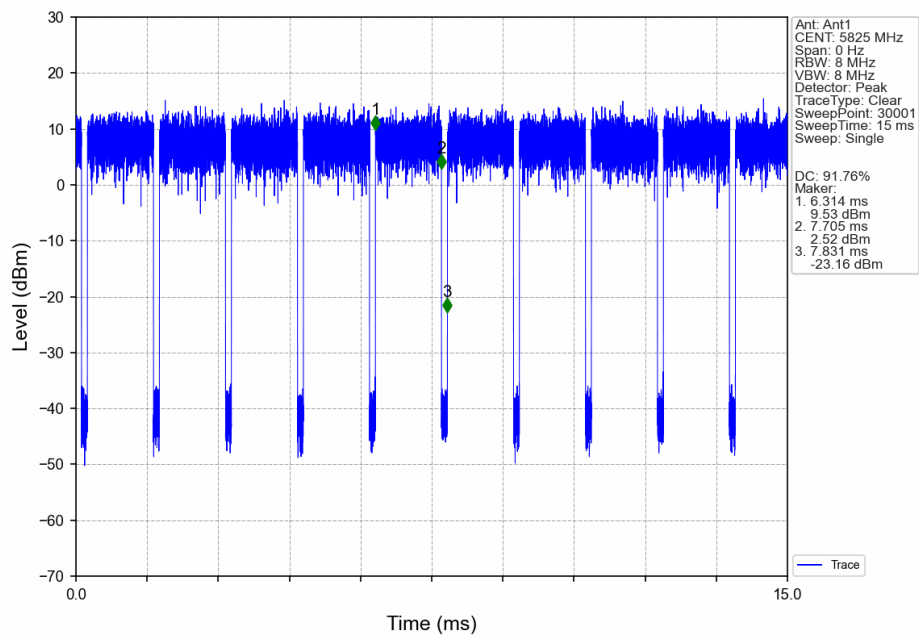
802.11a_LCH_5745MHz_Ant1_NTNV



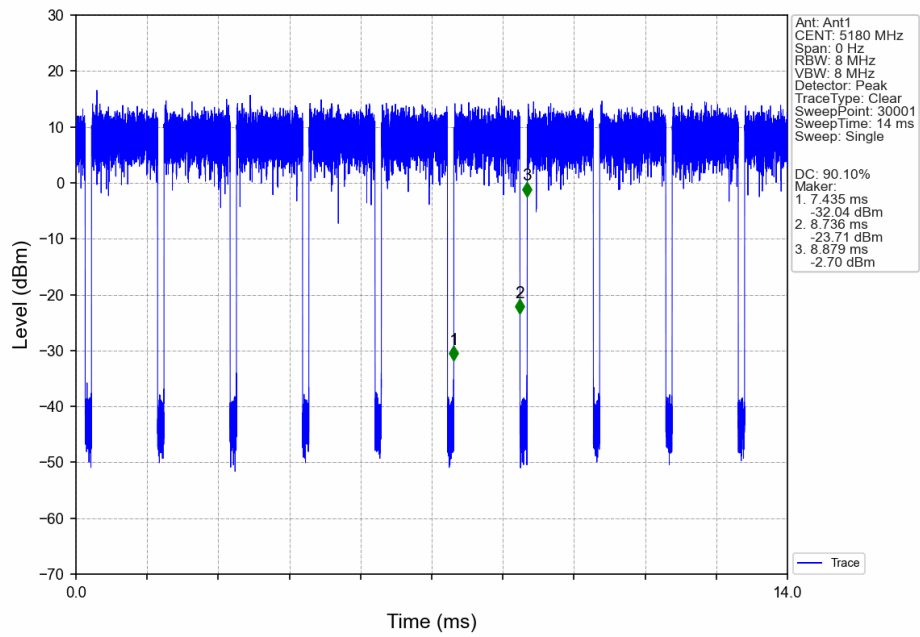
802.11a_MCH_5785MHz_Ant1_NTNV



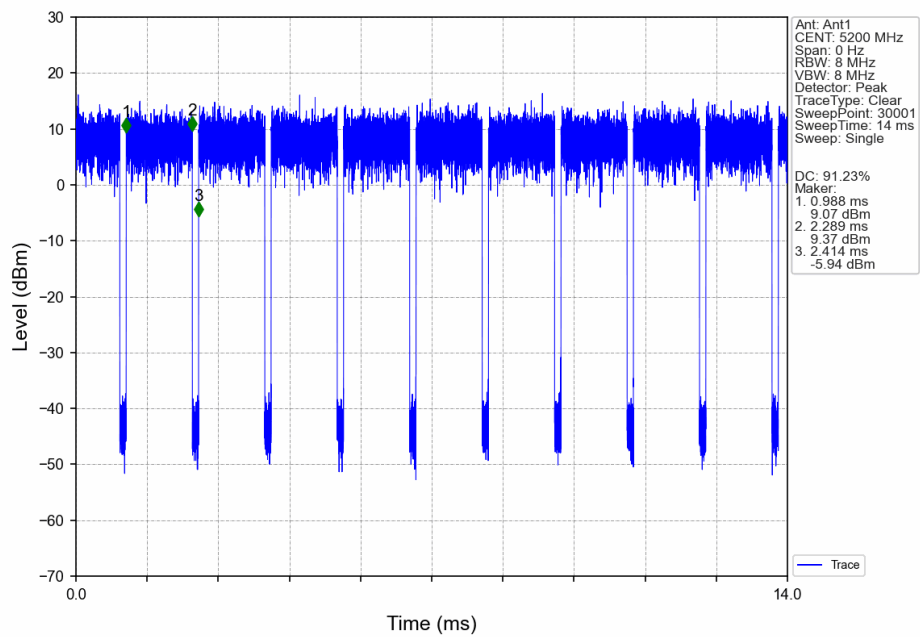
802.11a_HCH_5825MHz_Ant1_NTNV



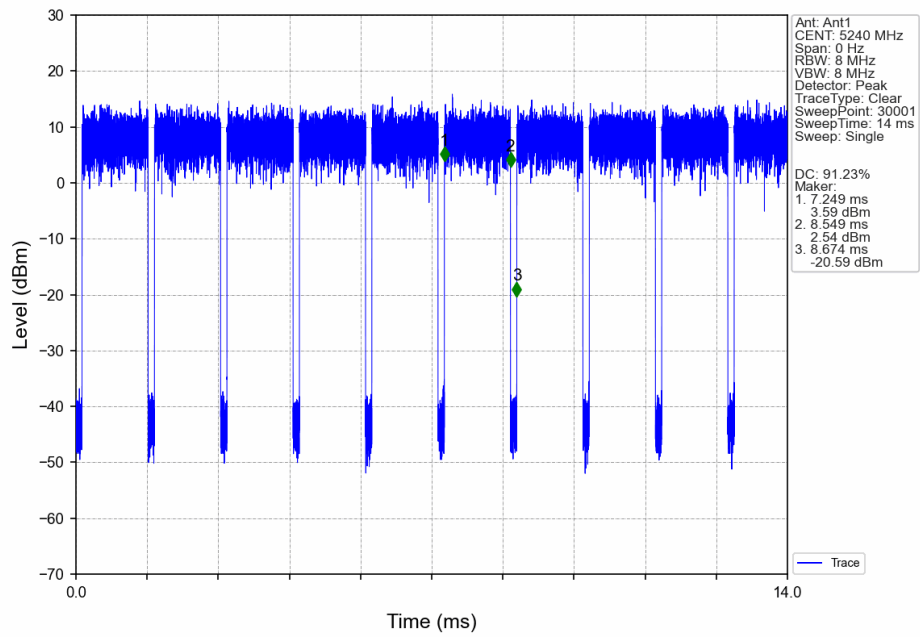
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



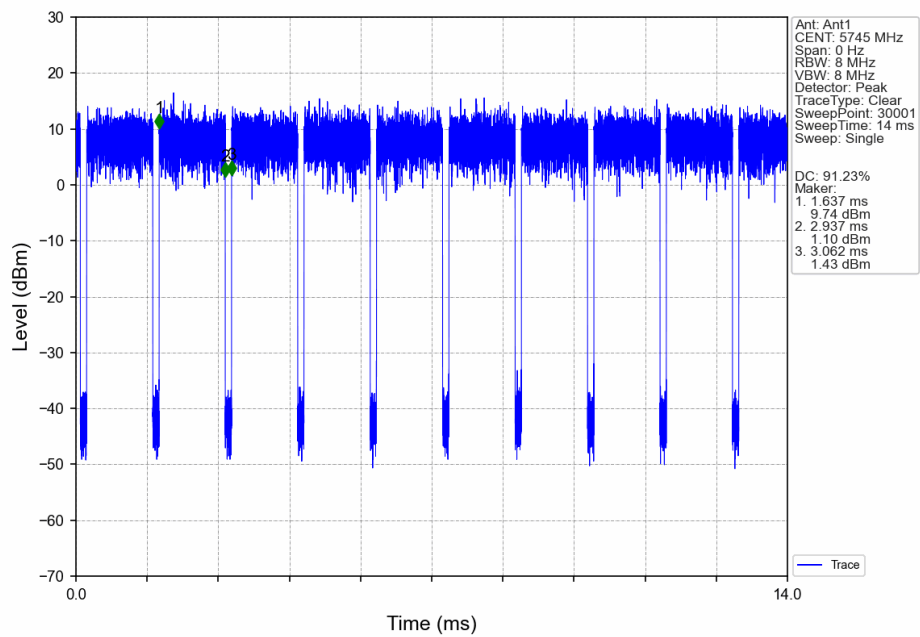
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



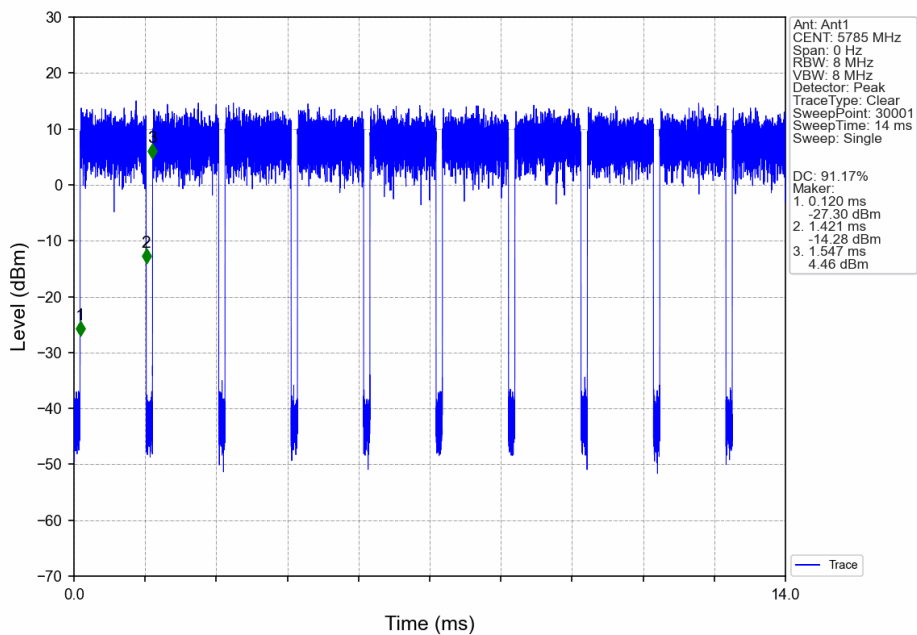
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



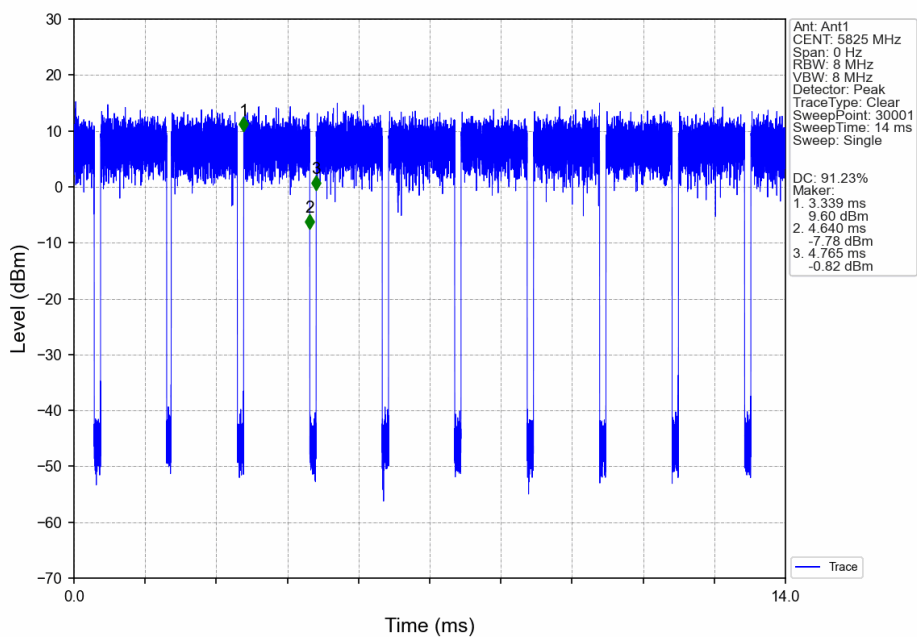
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



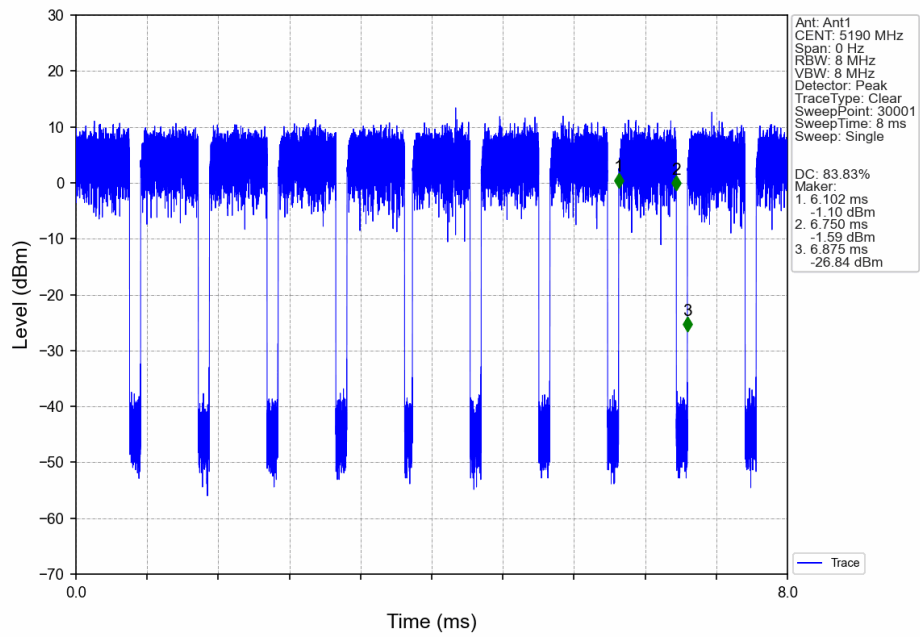
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



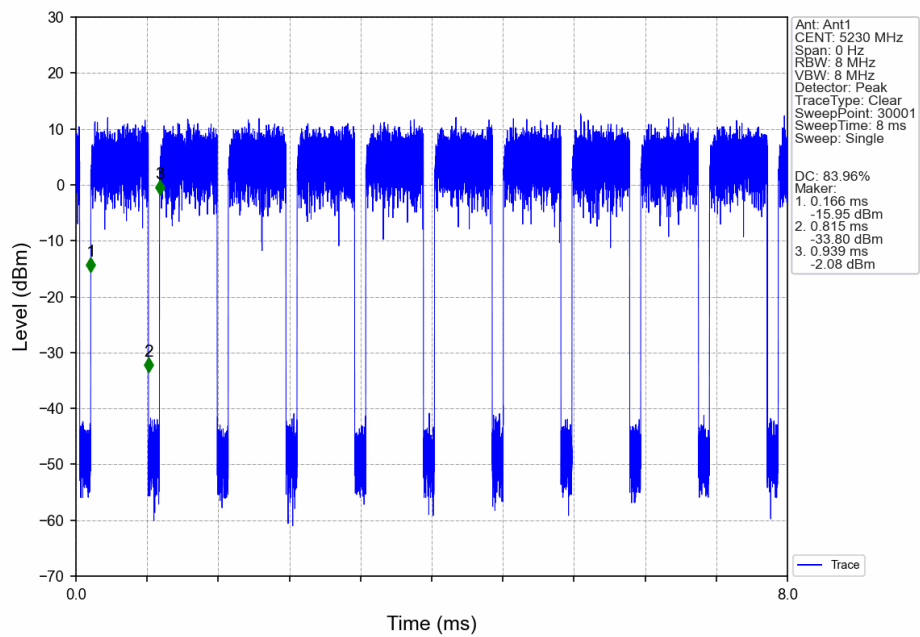
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



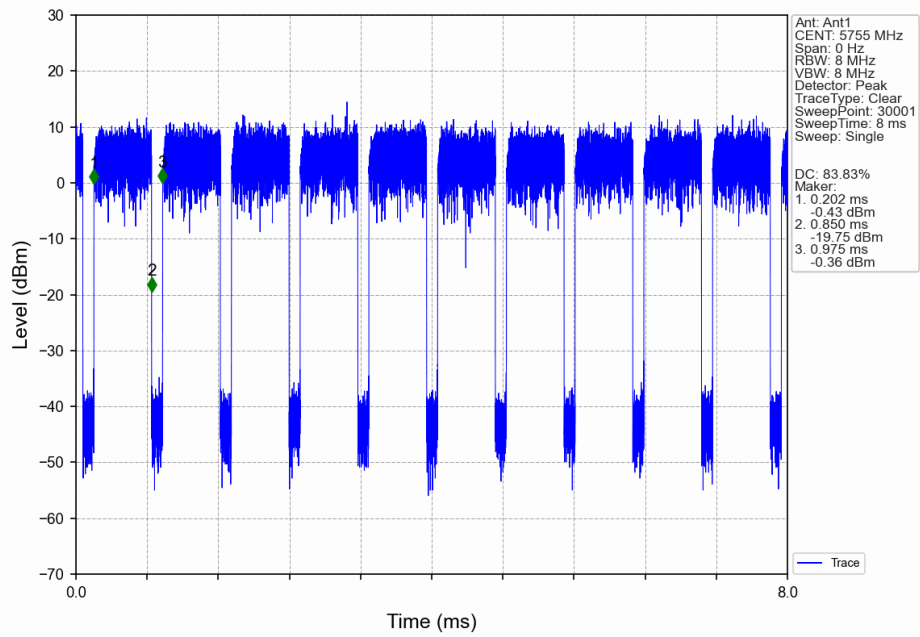
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



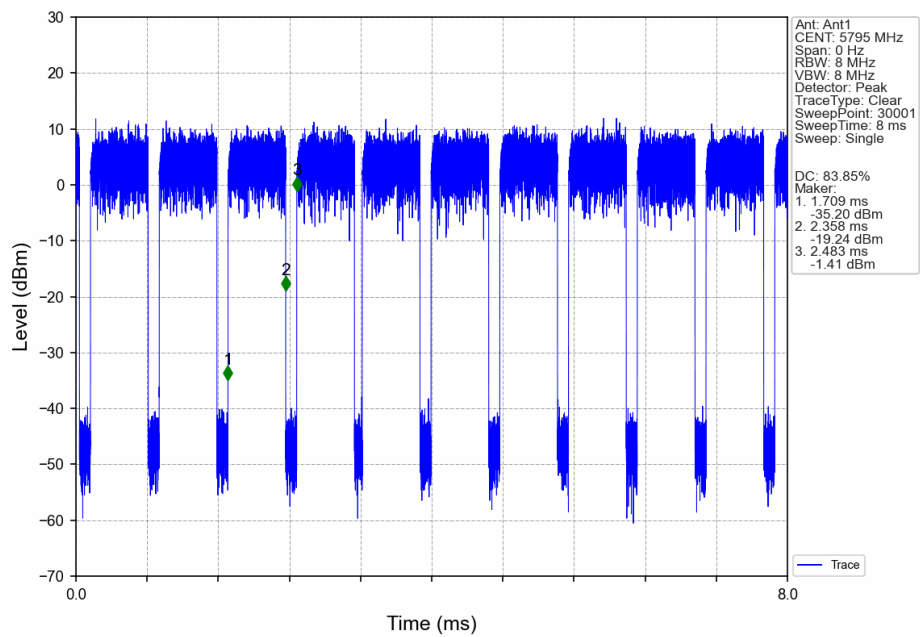
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



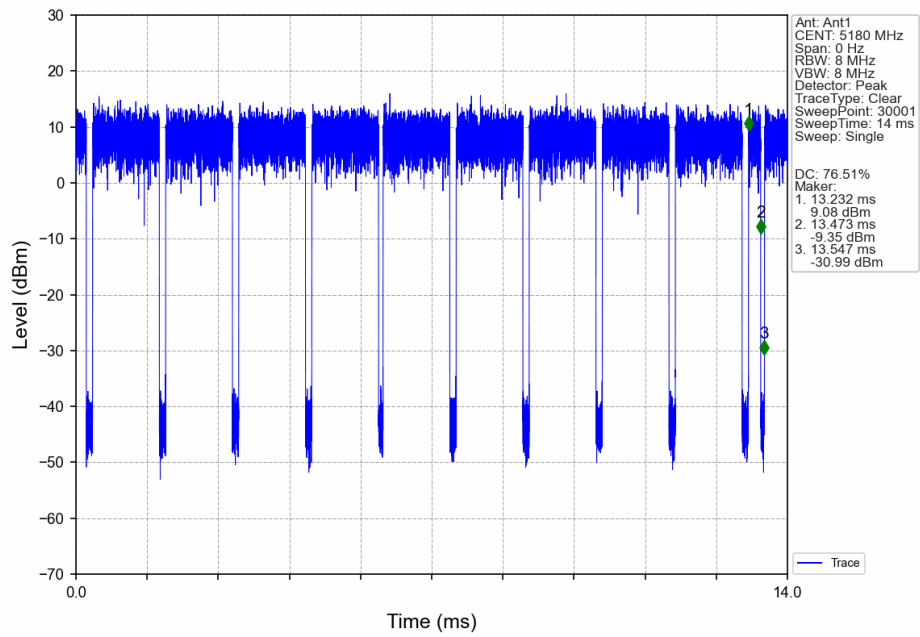
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



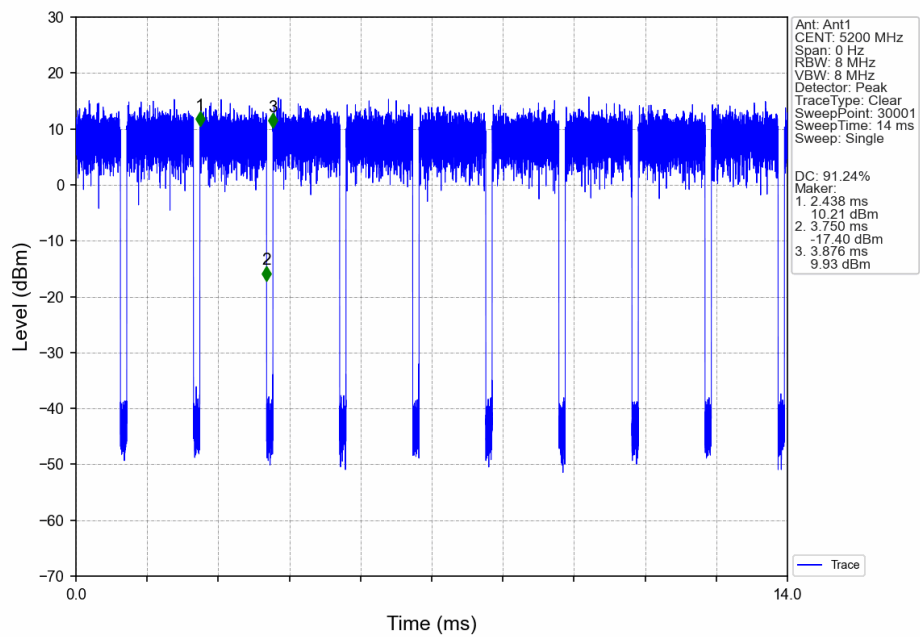
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



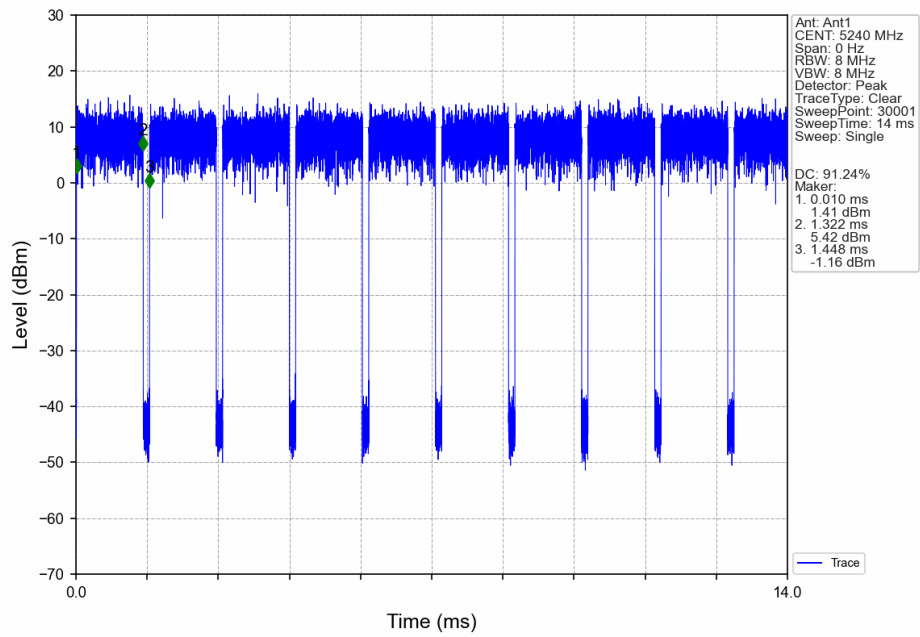
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



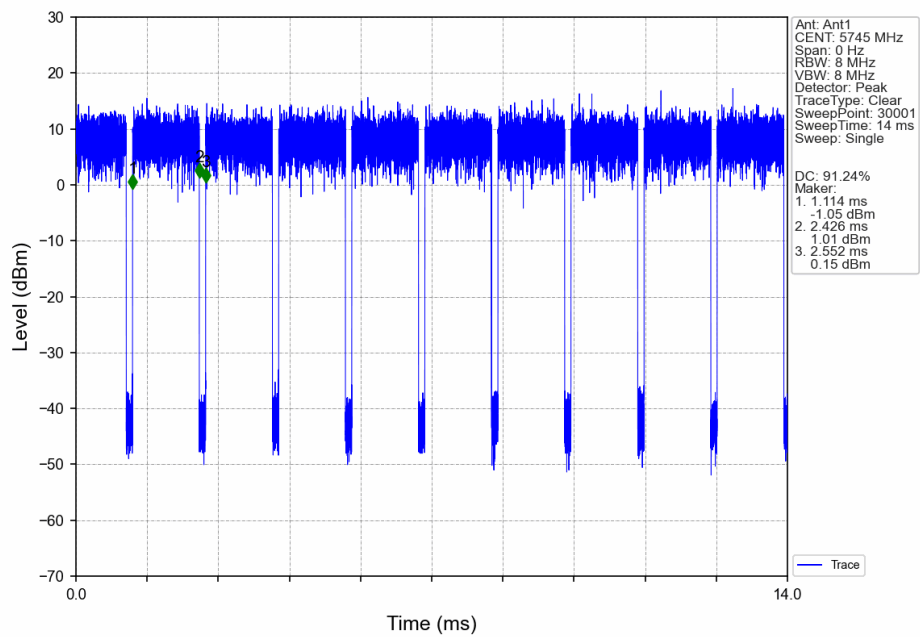
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



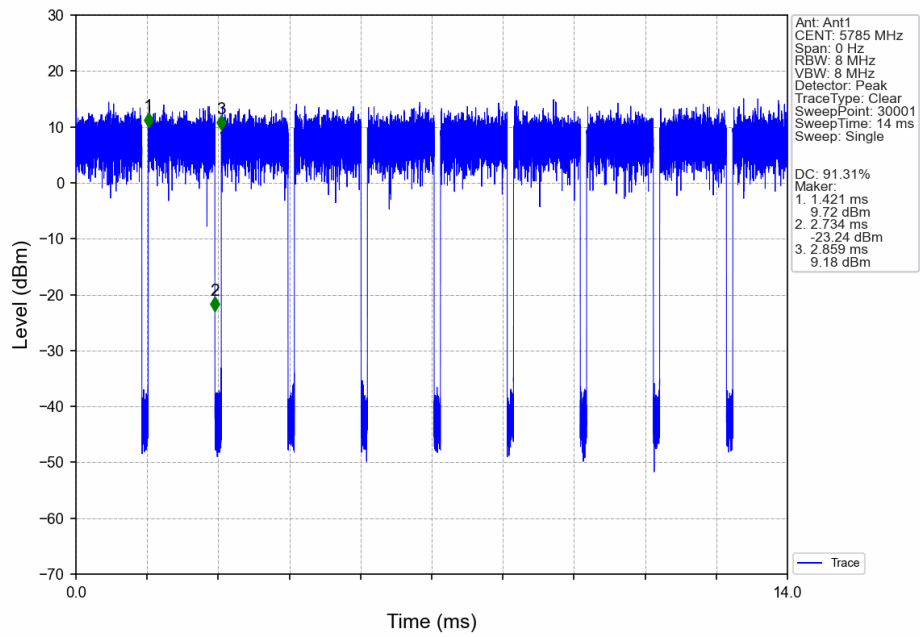
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



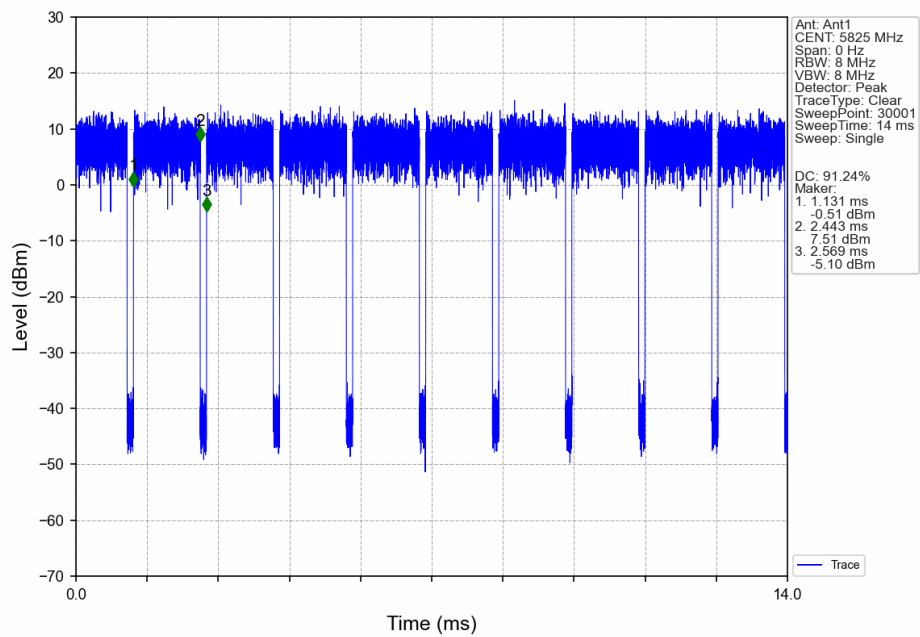
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



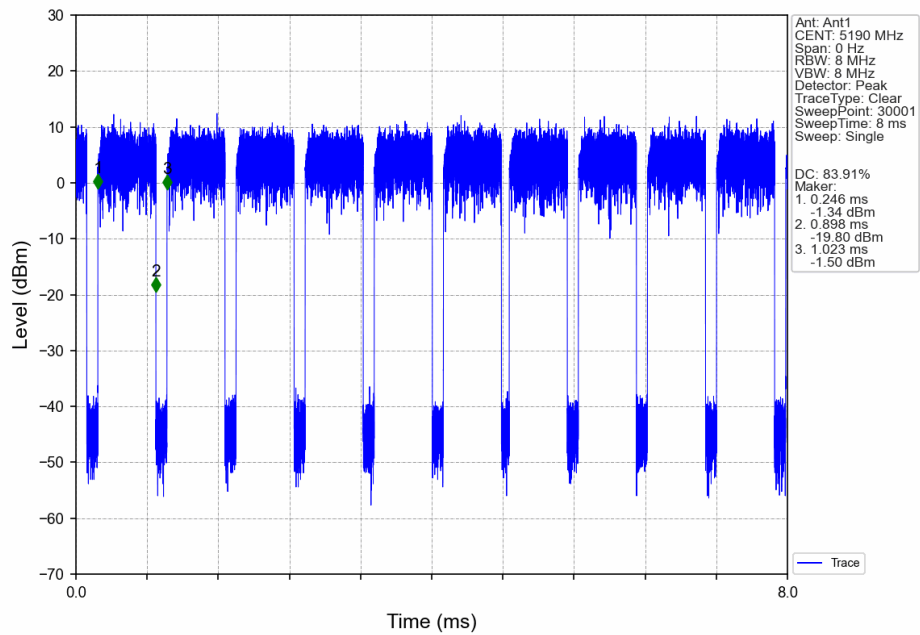
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



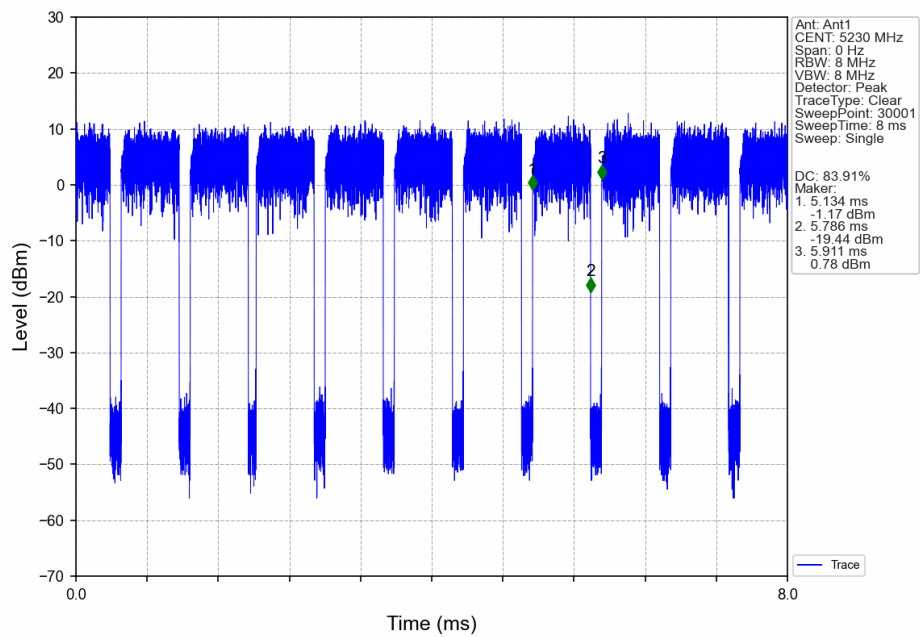
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



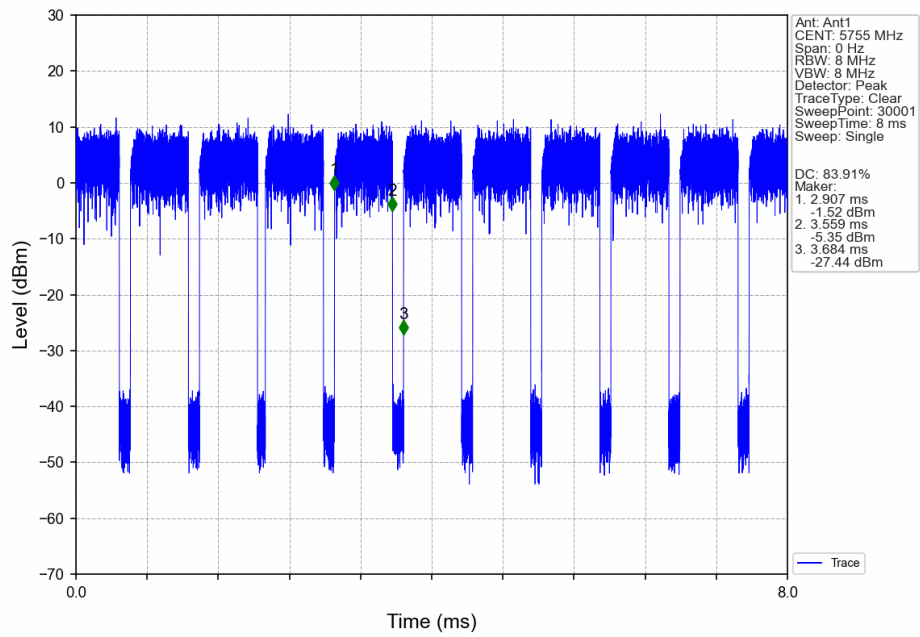
802.11ac(VHT40) LCH_5190MHz_Ant1_NTNV



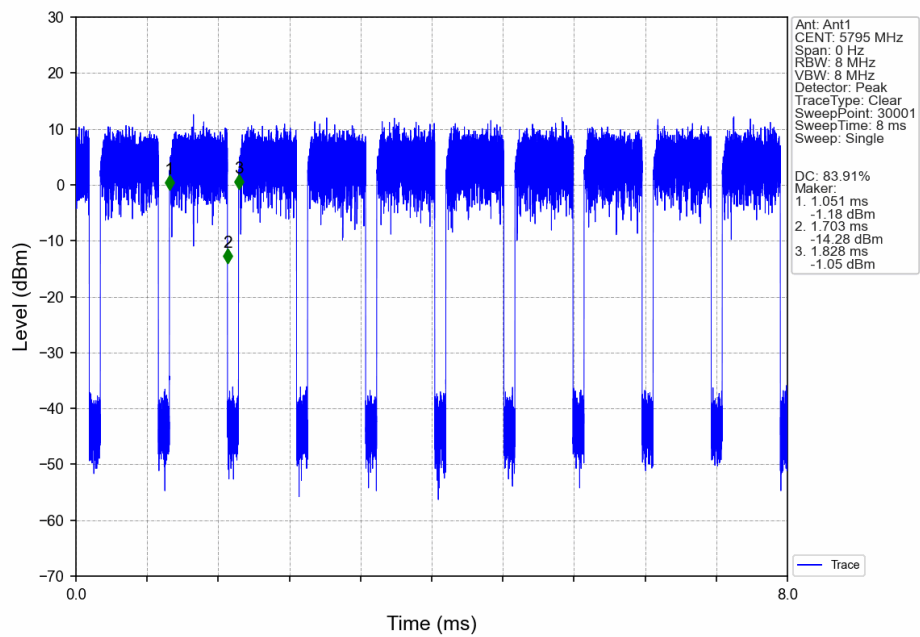
802.11ac(VHT40) HCH_5230MHz_Ant1_NTNV



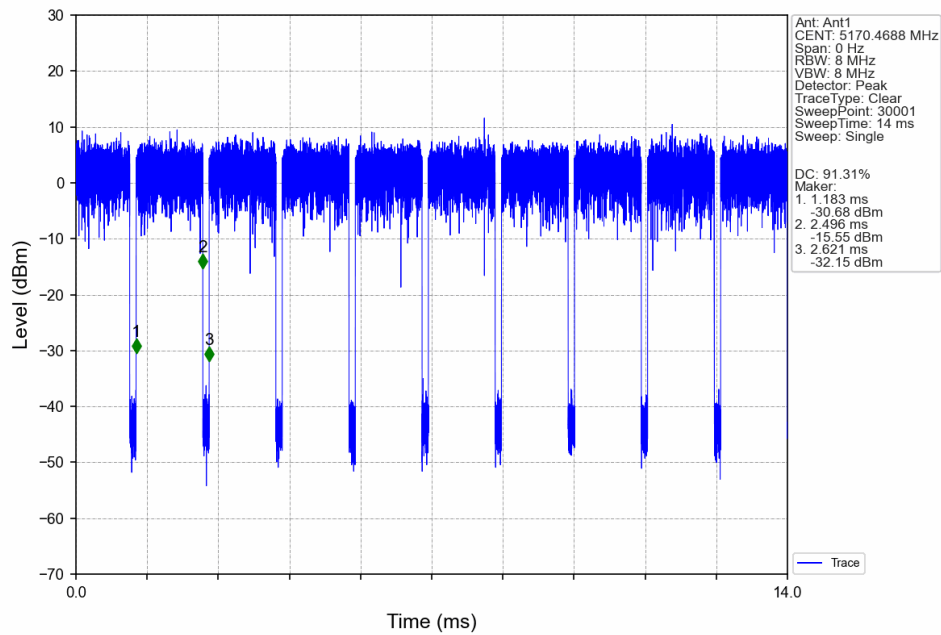
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



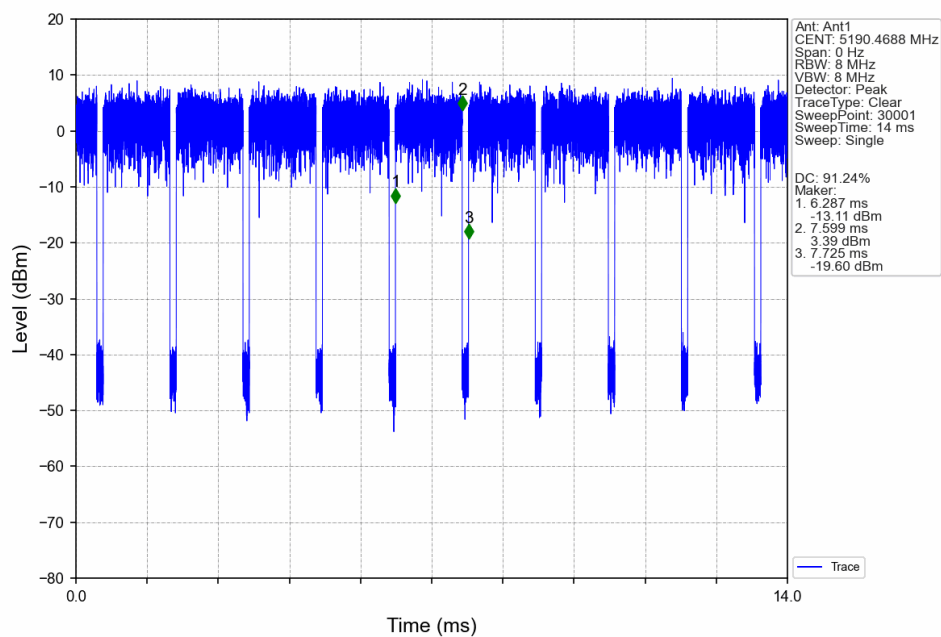
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



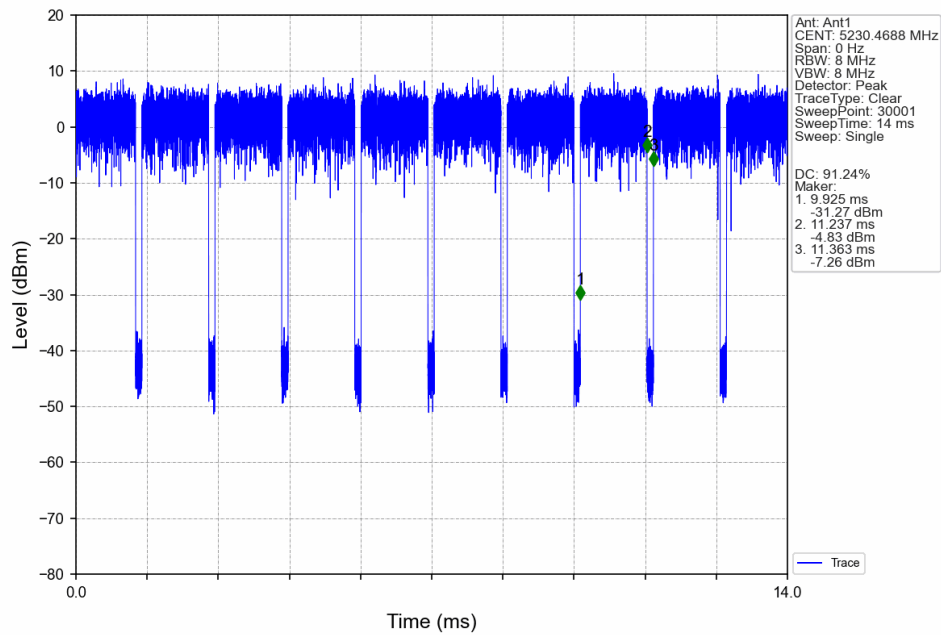
802.11ax(HEW20)_LCH_5180MHz_SU_/_Ant1_NTNV



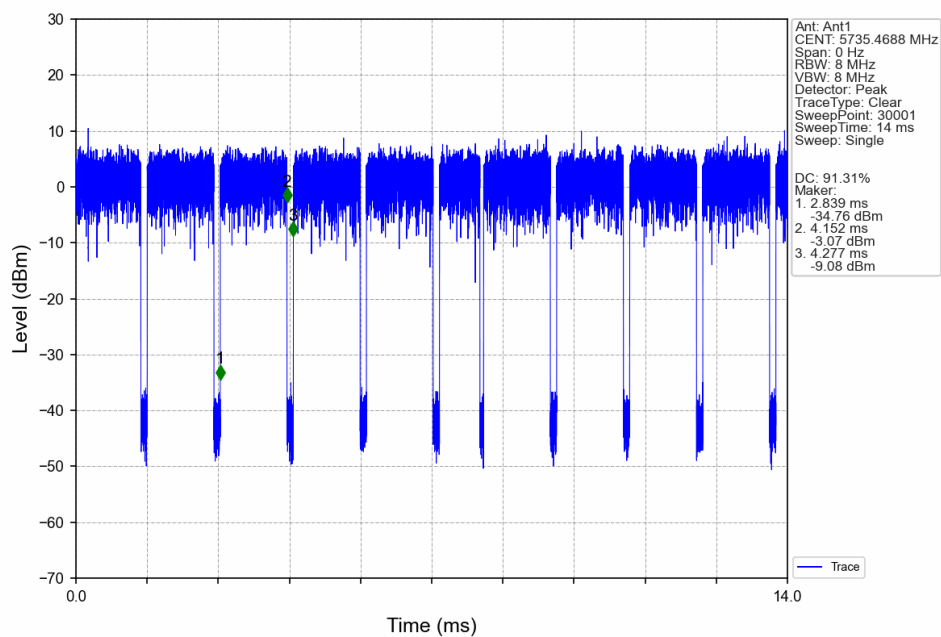
802.11ax(HEW20)_MCH_5200MHz_SU_/_Ant1_NTNV



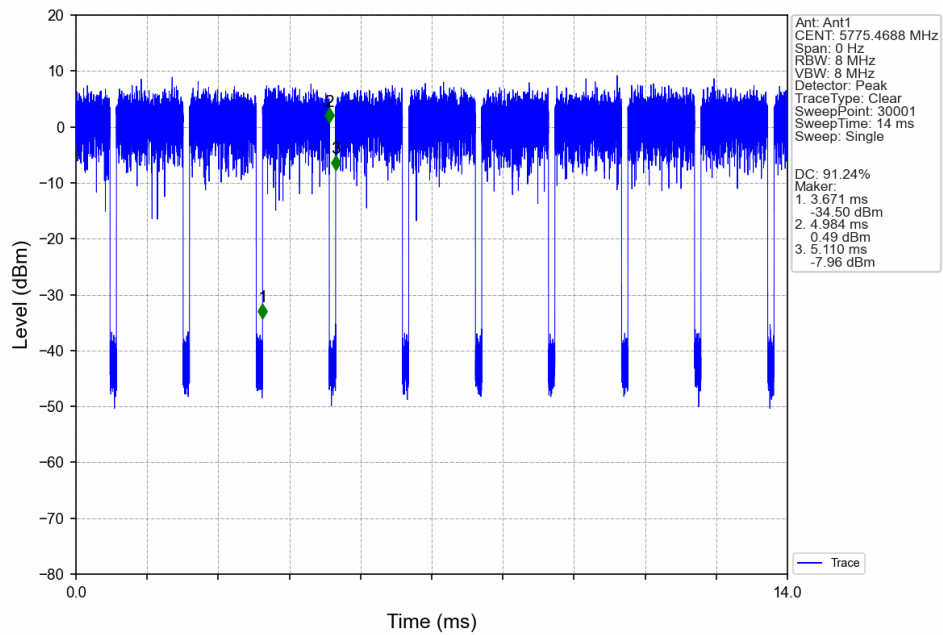
802.11ax(HEW20)_HCH_5240MHz_SU_/_Ant1_NTNV



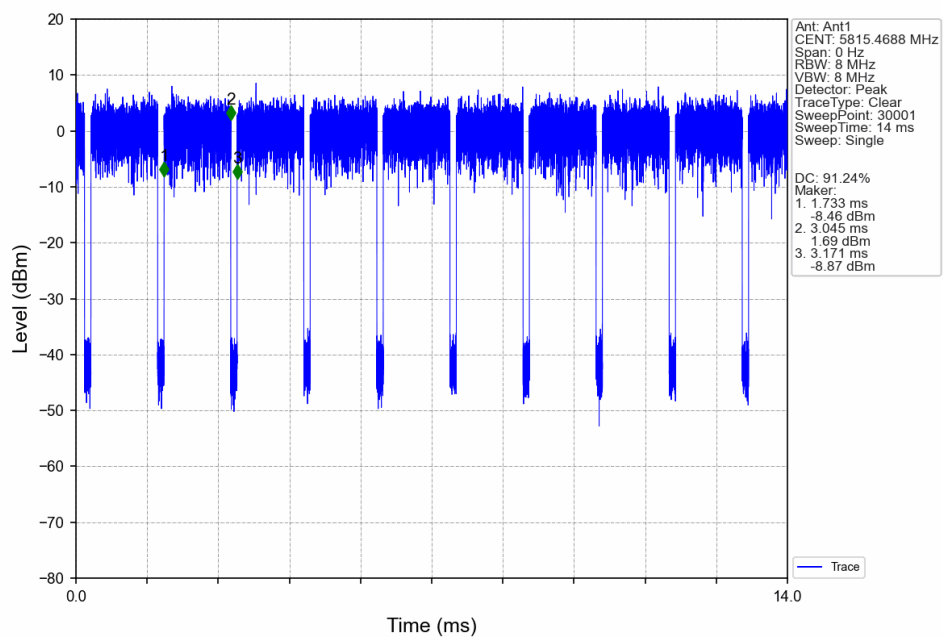
802.11ax(HEW20)_LCH_5745MHz_SU_/_Ant1_NTNV



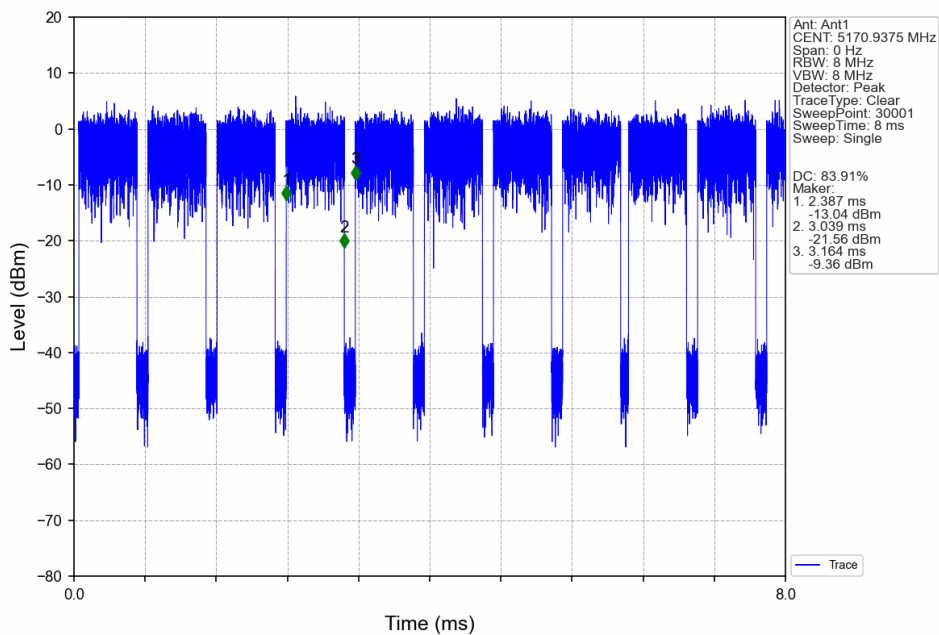
802.11ax(HEW20) MCH_5785MHz_SU / Ant1_NTNV



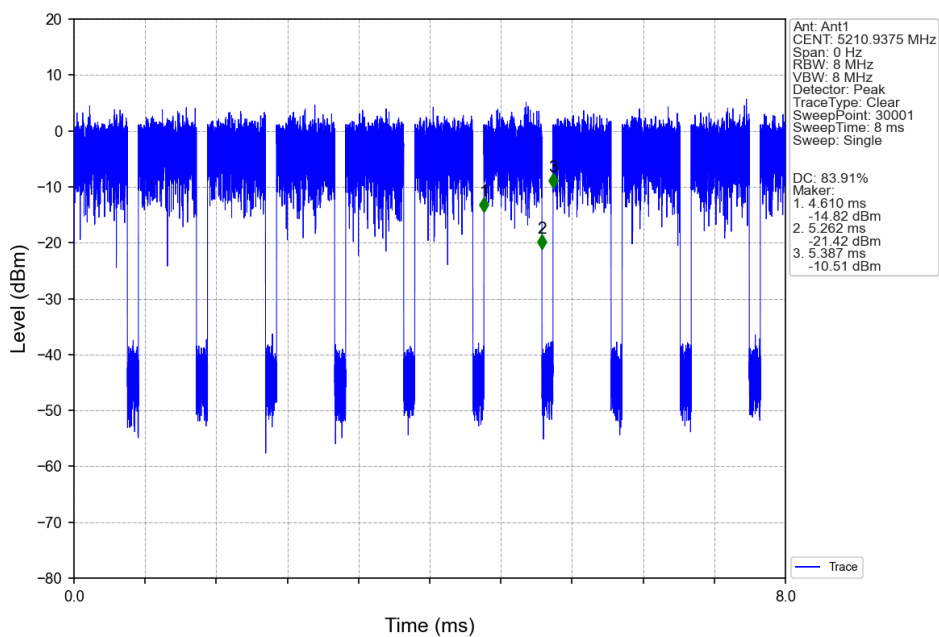
802.11ax(HEW20) HCH_5825MHz_SU / Ant1_NTNV



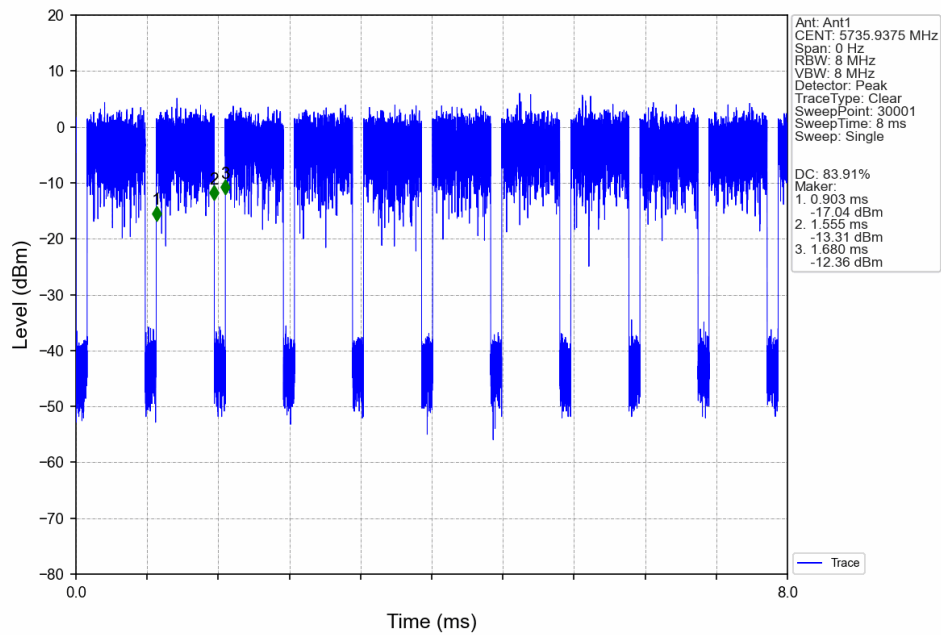
802.11ax(HEW40)_LCH_5190MHz_SU_/_Ant1_NTNV



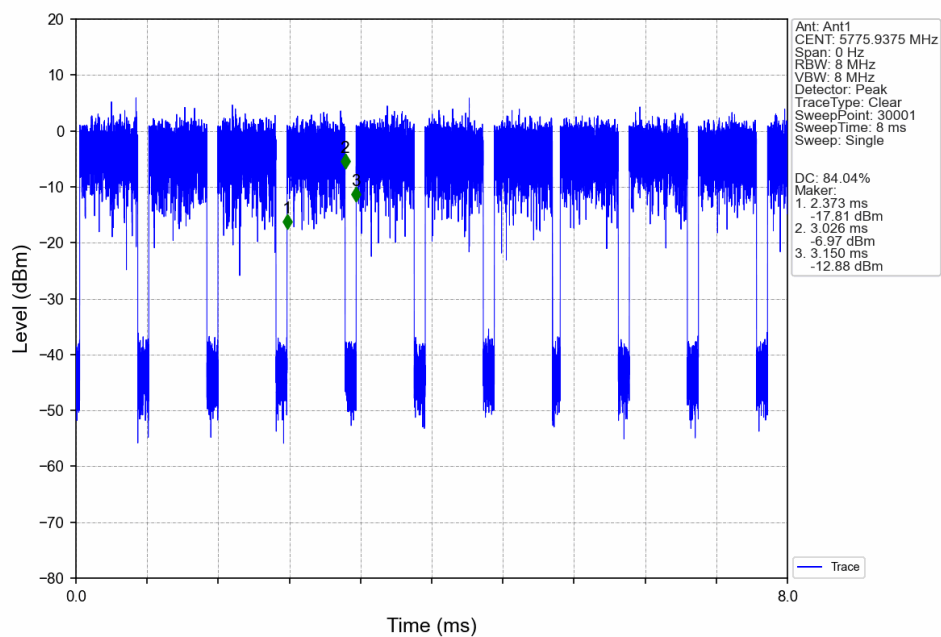
802.11ax(HEW40)_HCH_5230MHz_SU_/_Ant1_NTNV



802.11ax(HEW40)_LCH_5755MHz_SU_/_Ant1_NTNV



802.11ax(HEW40)_HCH_5795MHz_SU_/_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	16.434	/	Pass
		5200	/	/	1	16.429	/	Pass
		5240	/	/	1	16.437	/	Pass
		5745	/	/	1	16.482	/	Pass
		5785	/	/	1	16.389	/	Pass
		5825	/	/	1	16.442	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	17.531	/	Pass
		5200	/	/	1	17.557	/	Pass
		5240	/	/	1	17.547	/	Pass
		5745	/	/	1	17.559	/	Pass
		5785	/	/	1	17.569	/	Pass
		5825	/	/	1	17.572	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	36.256	/	Pass
		5230	/	/	1	36.164	/	Pass
		5755	/	/	1	36.211	/	Pass
		5795	/	/	1	36.189	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	17.561	/	Pass
		5200	/	/	1	17.559	/	Pass
		5240	/	/	1	17.567	/	Pass
		5745	/	/	1	17.607	/	Pass
		5785	/	/	1	17.559	/	Pass
		5825	/	/	1	17.560	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	36.150	/	Pass
		5230	/	/	1	36.185	/	Pass
		5755	/	/	1	36.160	/	Pass
		5795	/	/	1	36.196	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	17.568	/	Pass
		5200	SU	/	1	17.523	/	Pass
		5240	SU	/	1	17.570	/	Pass
		5745	SU	/	1	17.569	/	Pass
		5785	SU	/	1	17.569	/	Pass
		5825	SU	/	1	17.579	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	36.104	/	Pass
		5230	SU	/	1	36.099	/	Pass
		5755	SU	/	1	36.077	/	Pass
		5795	SU	/	1	36.121	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	19.637	/	Pass
		5200	/	/	1	19.541	/	Pass
		5240	/	/	1	19.667	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	20.379	/	Pass
		5200	/	/	1	20.312	/	Pass

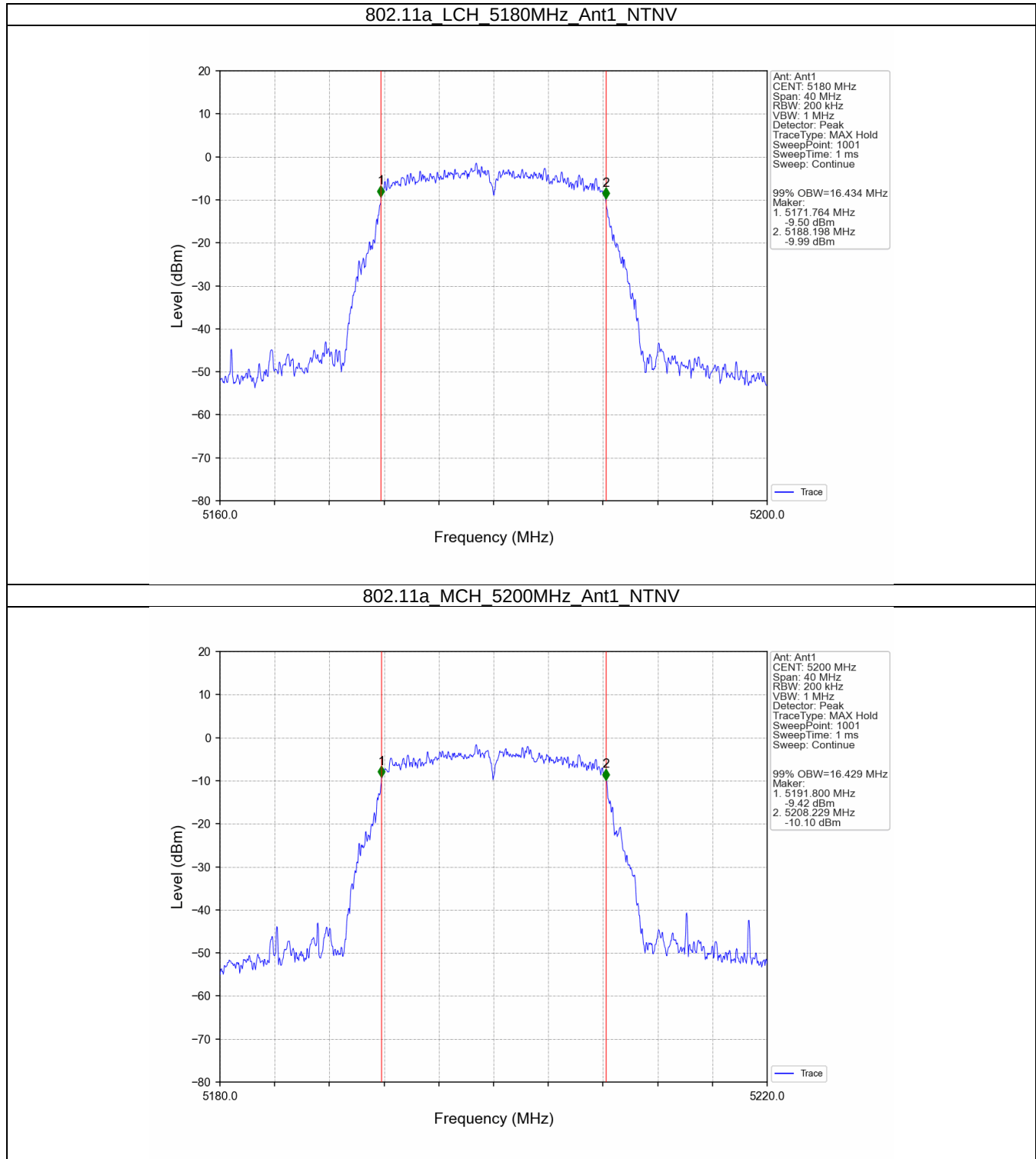
		5240	/	/	1	19.903	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	41.036	/	Pass
		5230	/	/	1	41.474	/	Pass
		5180	/	/	1	19.900	/	Pass
802.11ac (VHT20)	SISO	5200	/	/	1	20.365	/	Pass
		5240	/	/	1	20.242	/	Pass
		5190	/	/	1	41.270	/	Pass
802.11ac (VHT40)	SISO	5230	/	/	1	40.738	/	Pass
		5180	SU	/	1	20.230	/	Pass
802.11ax (HEW20)	SISO	5200	SU	/	1	20.371	/	Pass
		5240	SU	/	1	20.348	/	Pass
		5190	SU	/	1	41.435	/	Pass
802.11ax (HEW40)	SISO	5230	SU	/	1	40.867	/	Pass

2.1.3 6dB BW

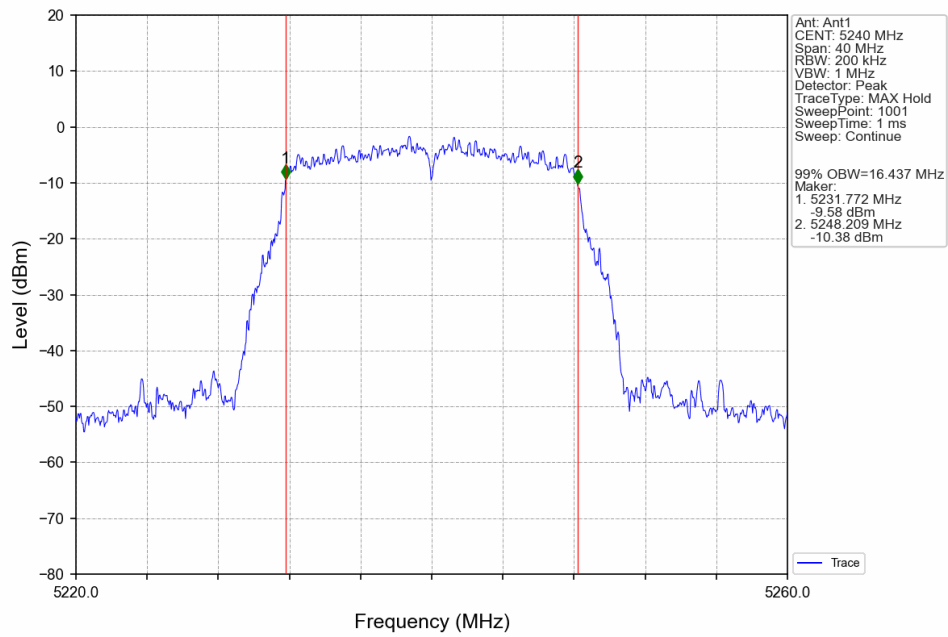
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	15.956	>=0.5	Pass
		5785	/	/	1	14.196	>=0.5	Pass
		5825	/	/	1	15.117	>=0.5	Pass
802.11n (HT20)	SISO	5745	/	/	1	16.924	>=0.5	Pass
		5785	/	/	1	14.231	>=0.5	Pass
		5825	/	/	1	15.064	>=0.5	Pass
802.11n (HT40)	SISO	5755	/	/	1	35.064	>=0.5	Pass
		5795	/	/	1	32.665	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	/	/	1	15.133	>=0.5	Pass
		5785	/	/	1	15.495	>=0.5	Pass
		5825	/	/	1	15.486	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	/	/	1	35.160	>=0.5	Pass
		5795	/	/	1	35.061	>=0.5	Pass
802.11ax (HEW20)	SISO	5745	SU	/	1	15.156	>=0.5	Pass
		5785	SU	/	1	13.555	>=0.5	Pass
		5825	SU	/	1	15.514	>=0.5	Pass
802.11ax (HEW40)	SISO	5755	SU	/	1	35.155	>=0.5	Pass
		5795	SU	/	1	35.152	>=0.5	Pass

2.2 Test Graph

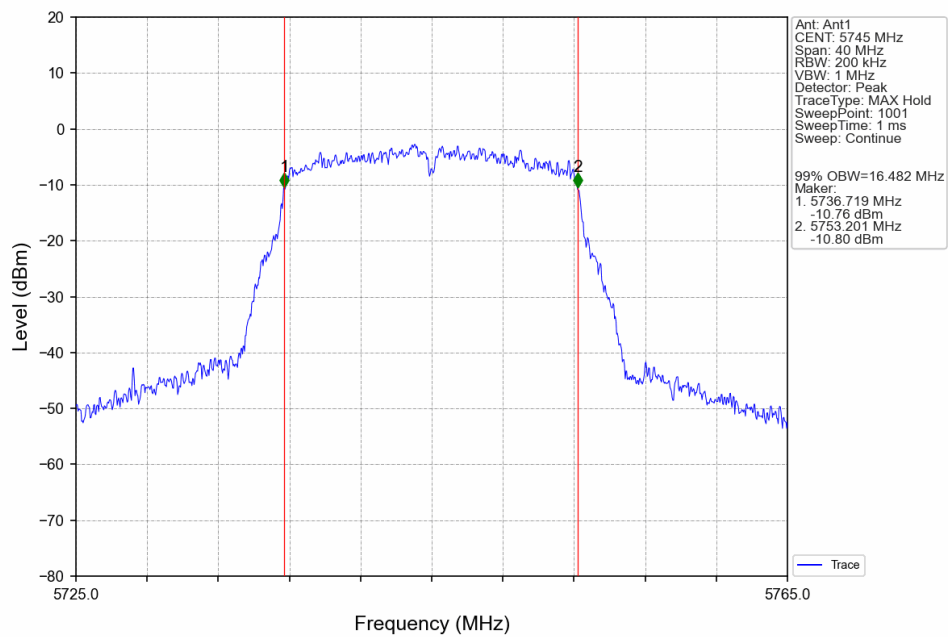
2.2.1 OBW



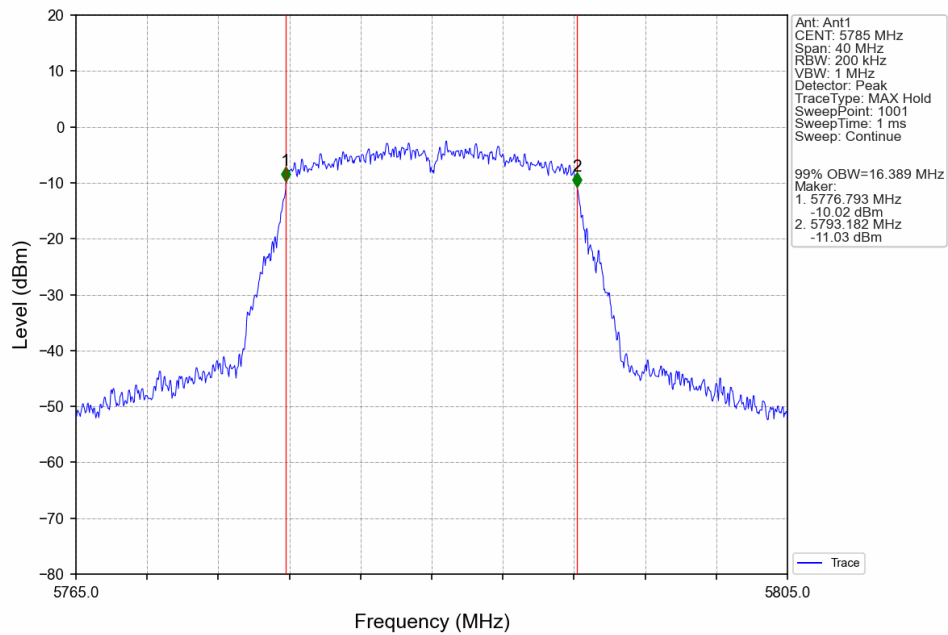
802.11a_HCH_5240MHz_Ant1_NTNV



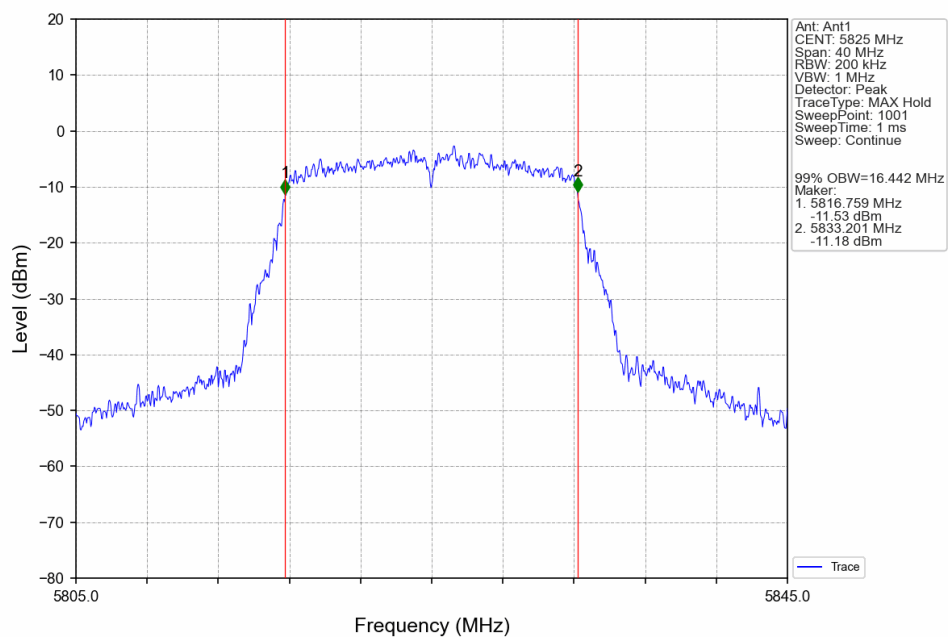
802.11a_LCH_5745MHz_Ant1_NTNV



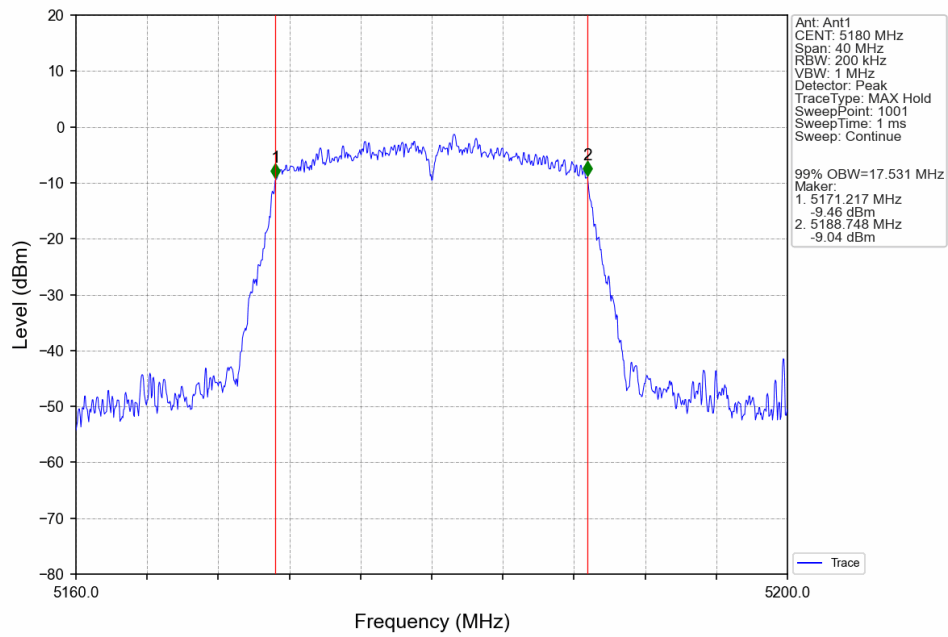
802.11a_MCH_5785MHz_Ant1_NTNV



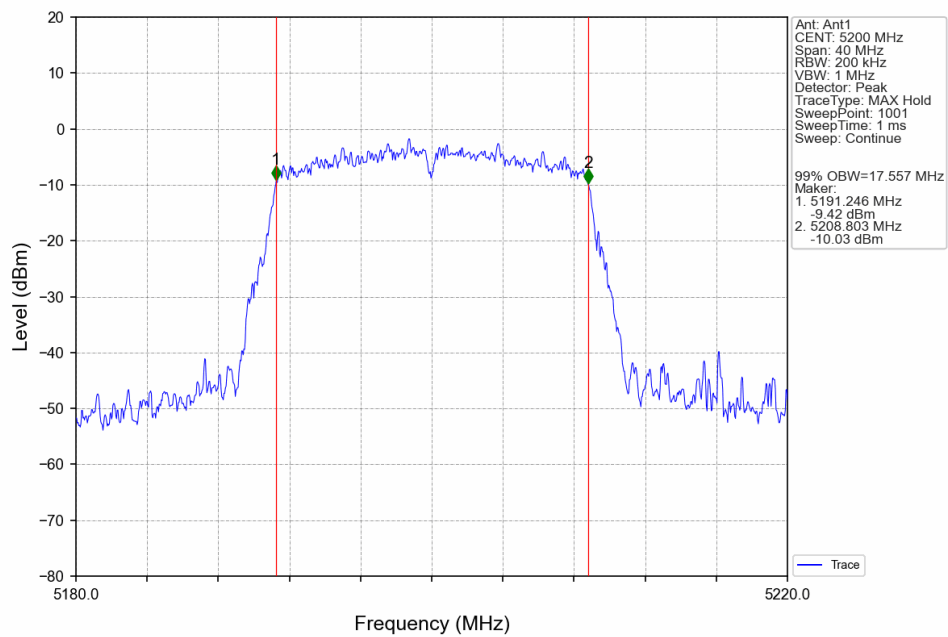
802.11a_HCH_5825MHz_Ant1_NTNV



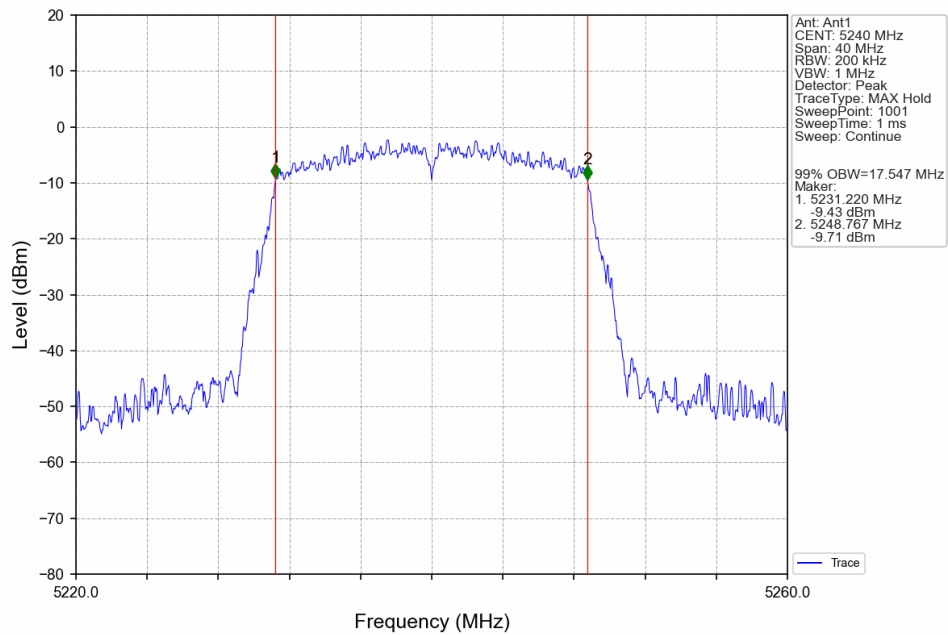
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



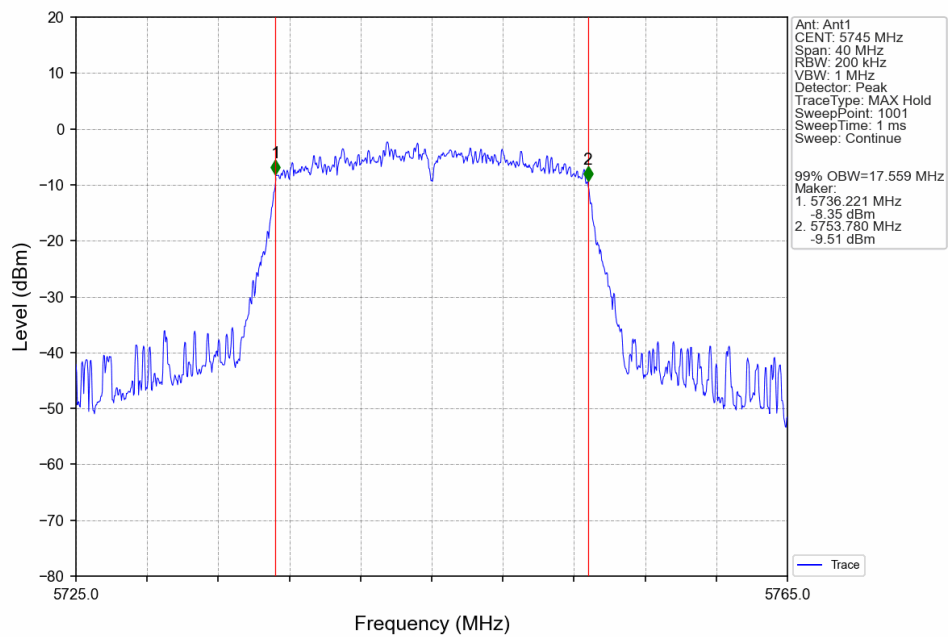
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



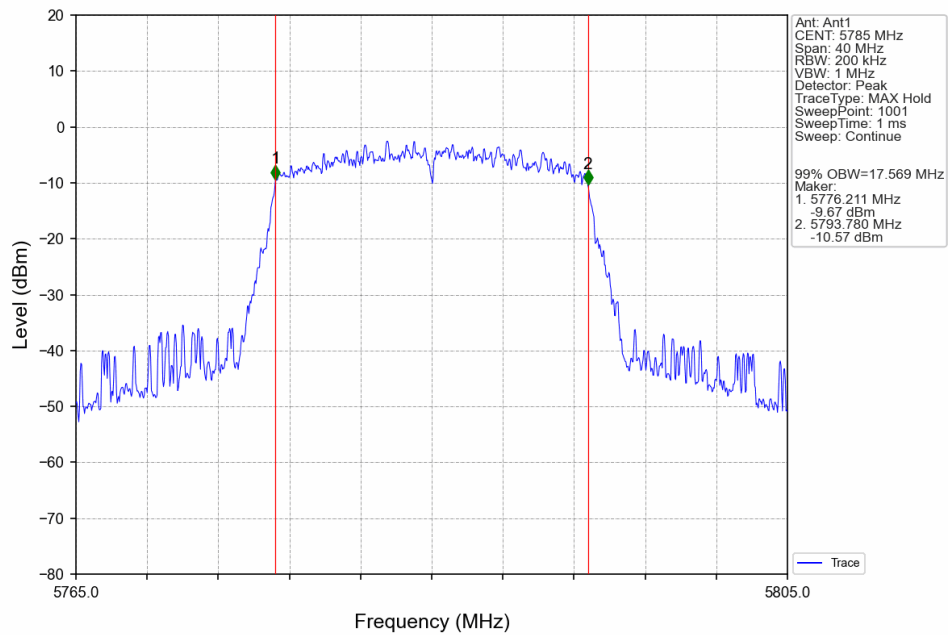
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



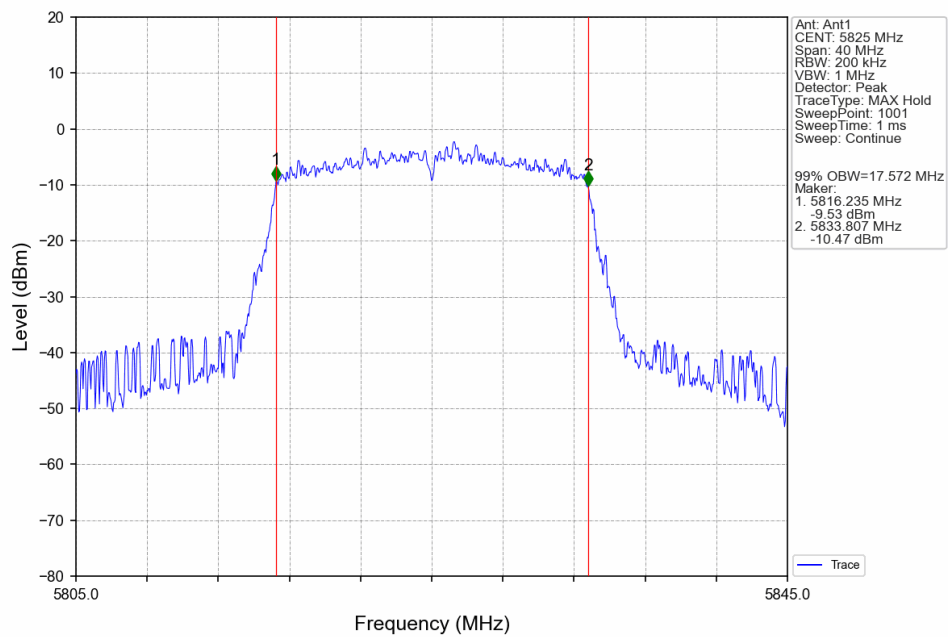
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



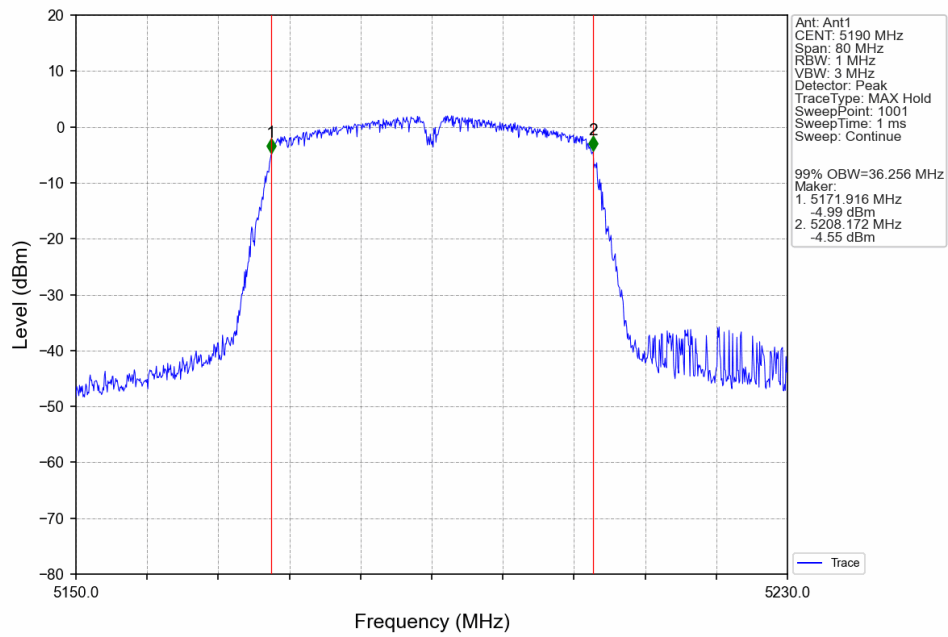
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



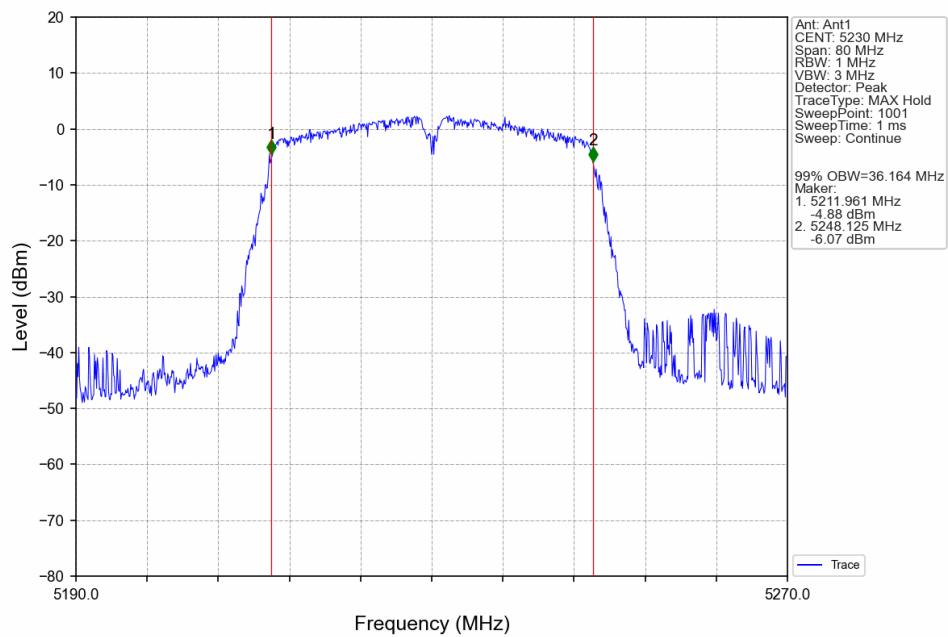
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



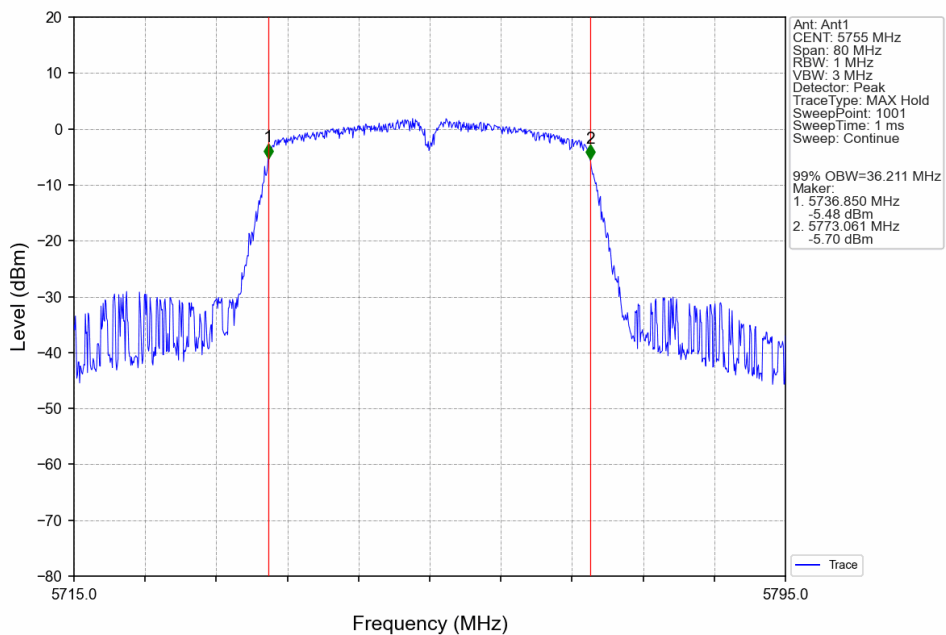
802.11n(HT40) LCH 5190MHz Ant1_NTNV



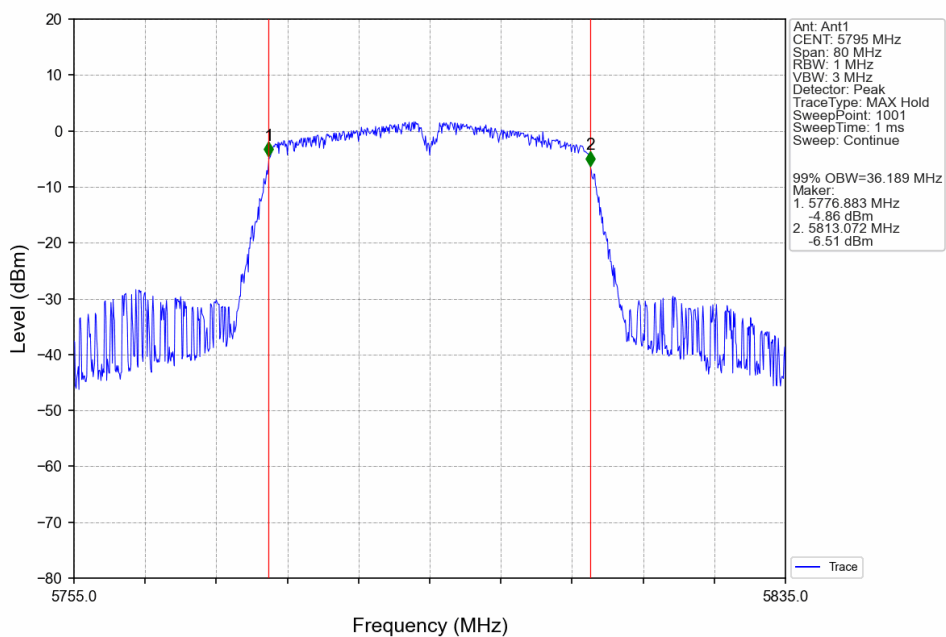
802.11n(HT40) HCH 5230MHz Ant1_NTNV



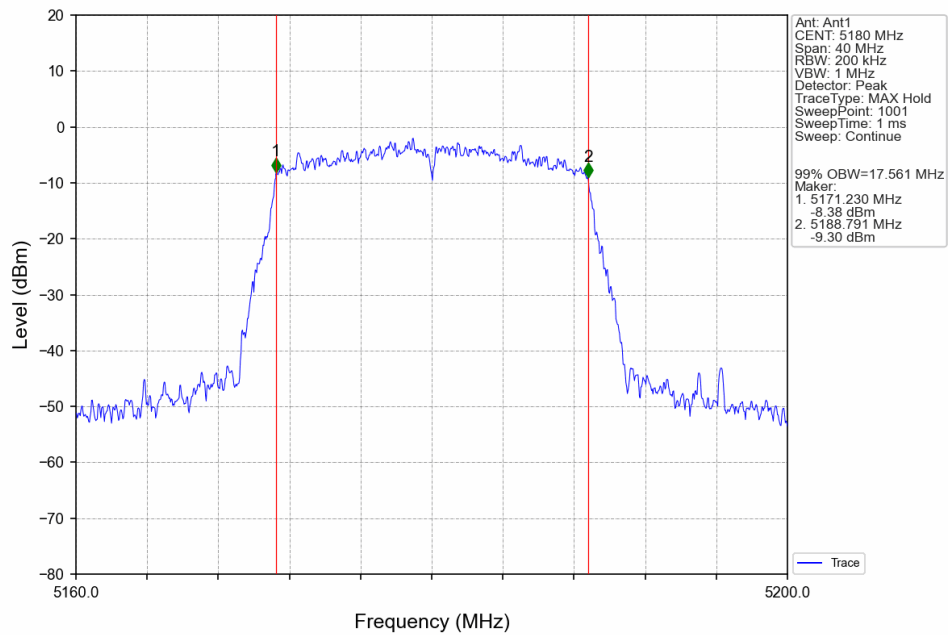
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



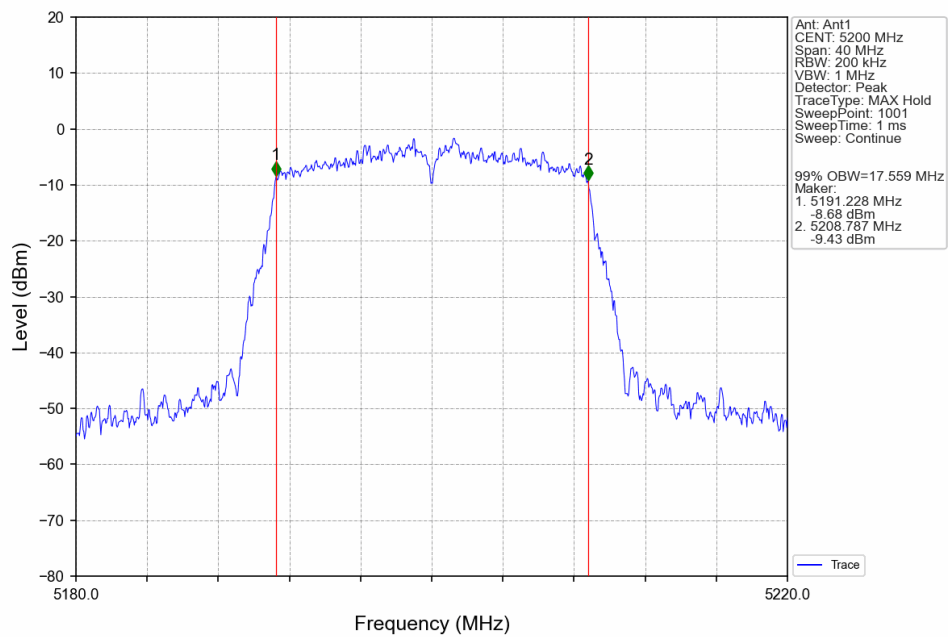
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



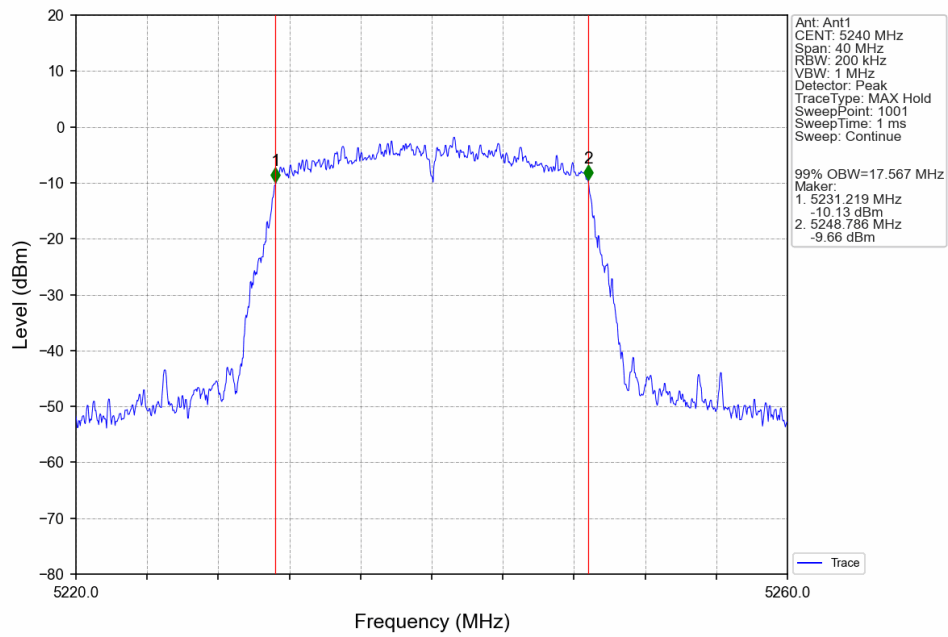
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



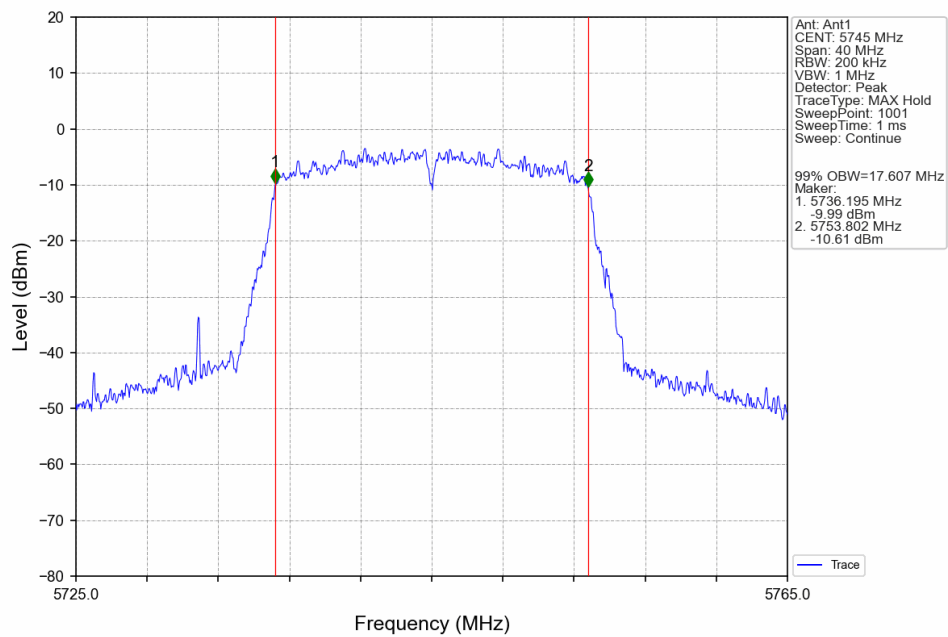
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



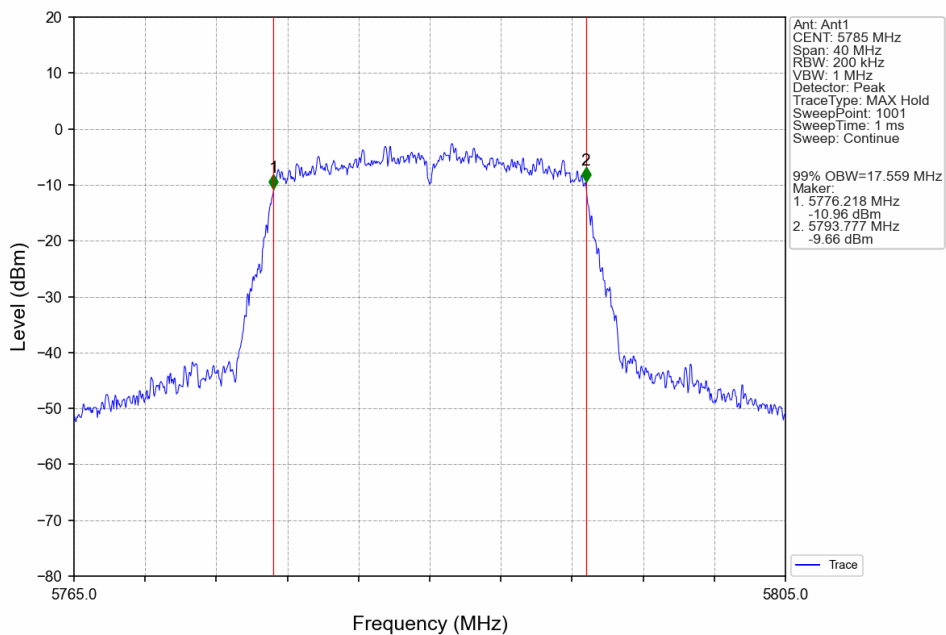
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



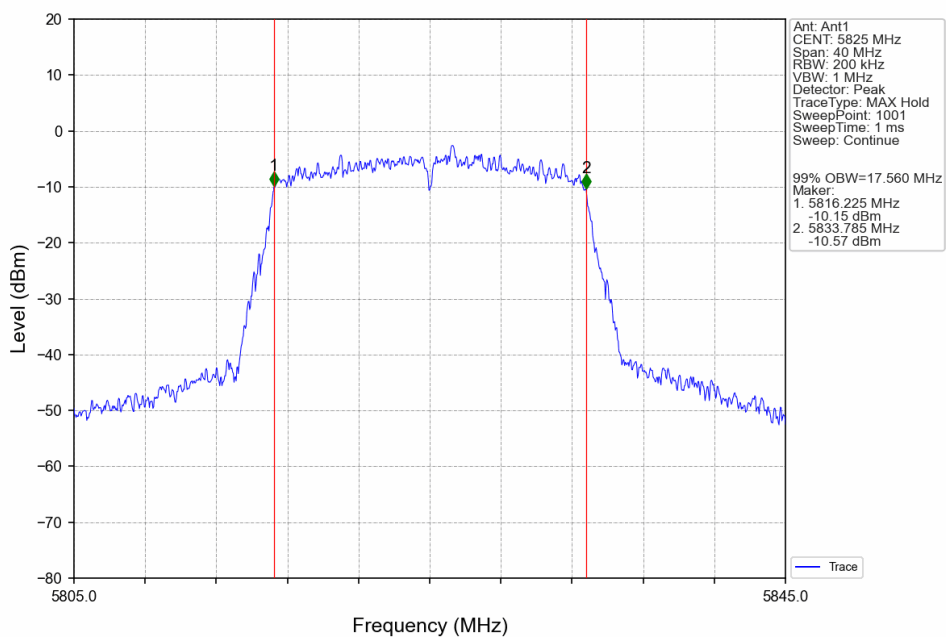
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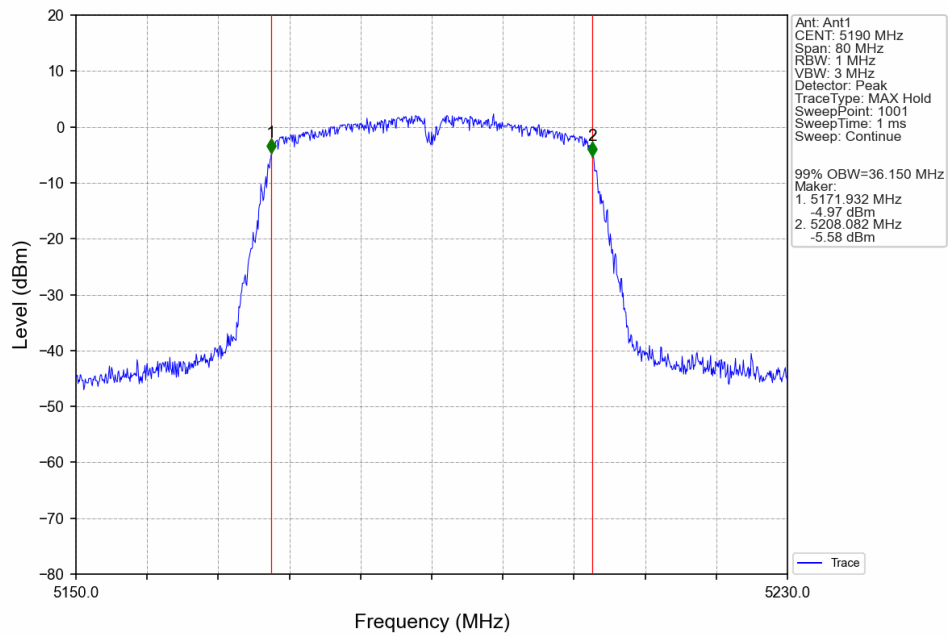
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



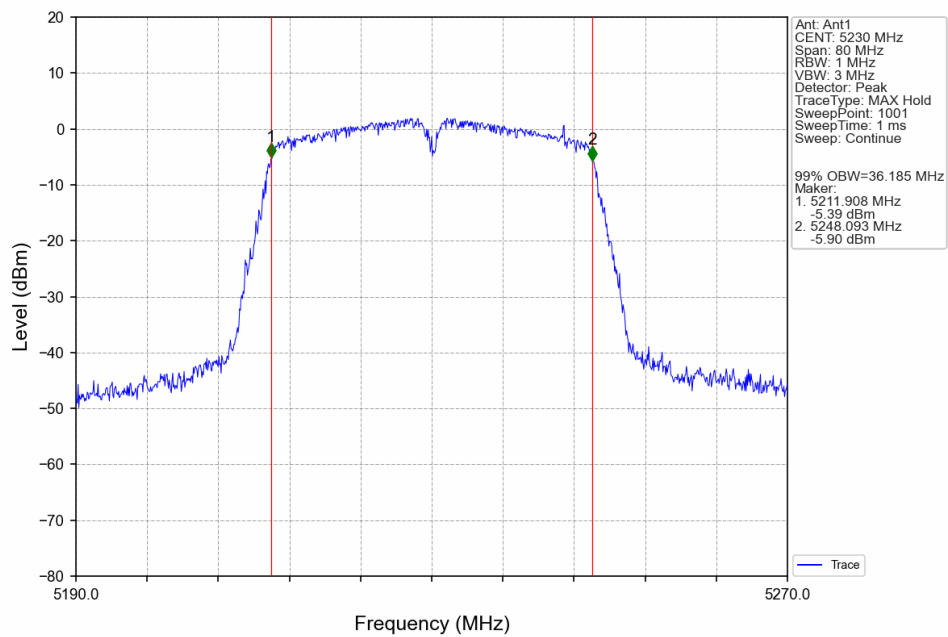
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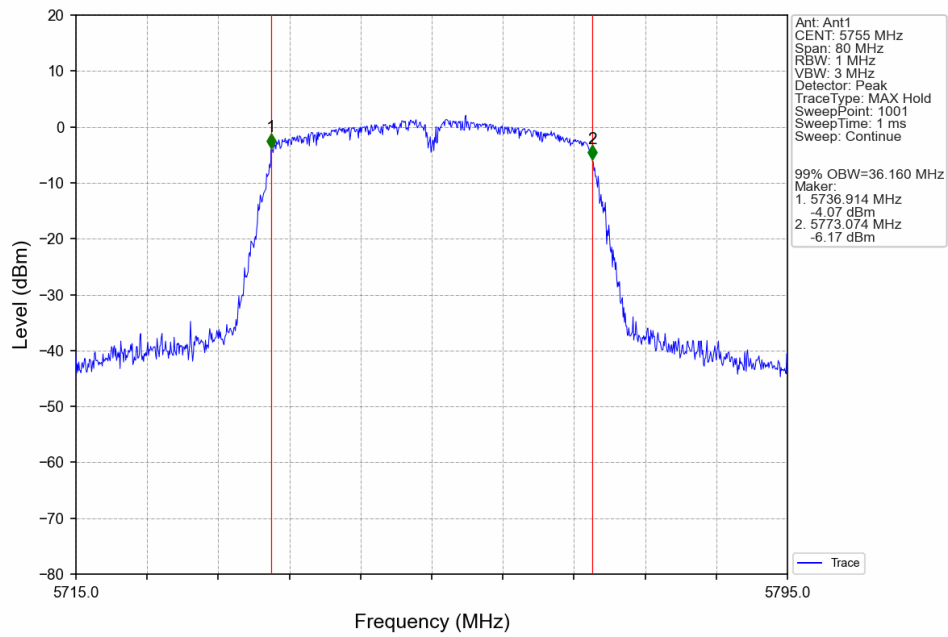
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



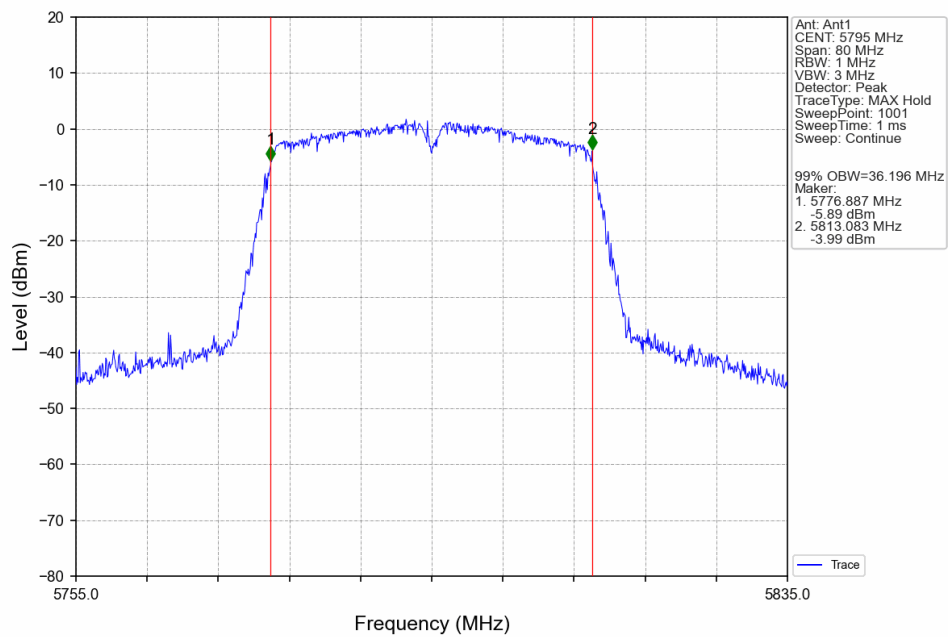
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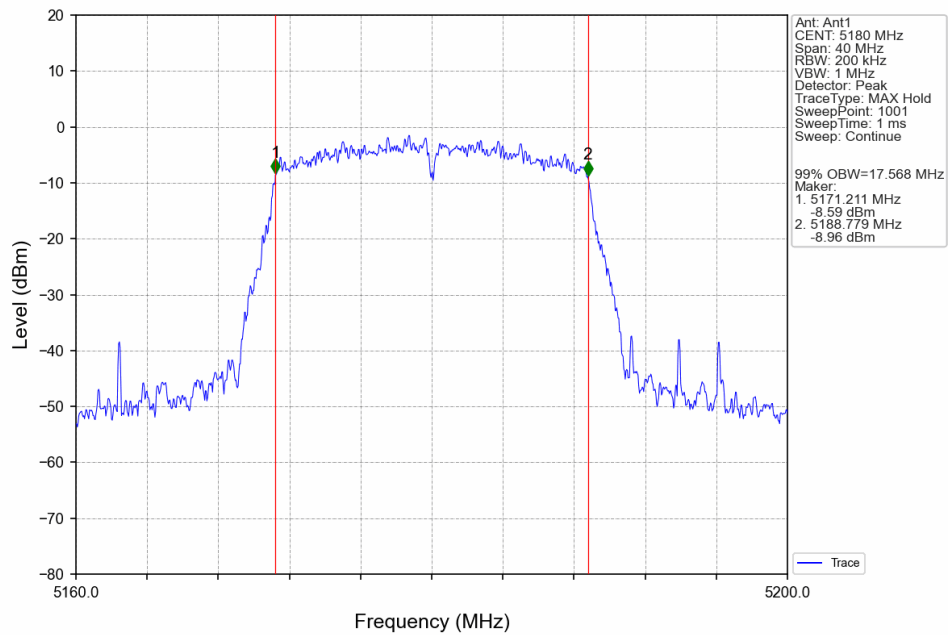
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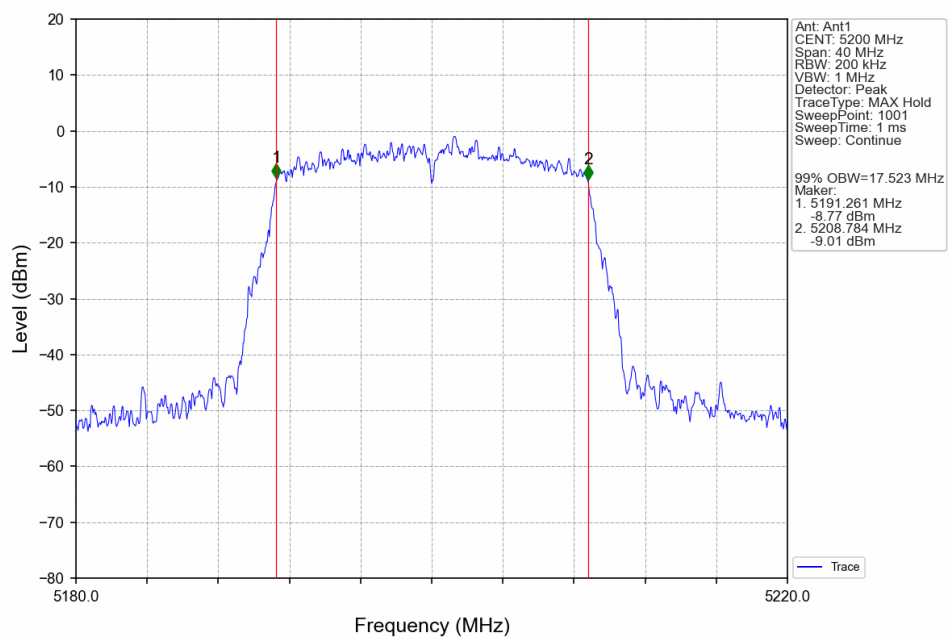
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



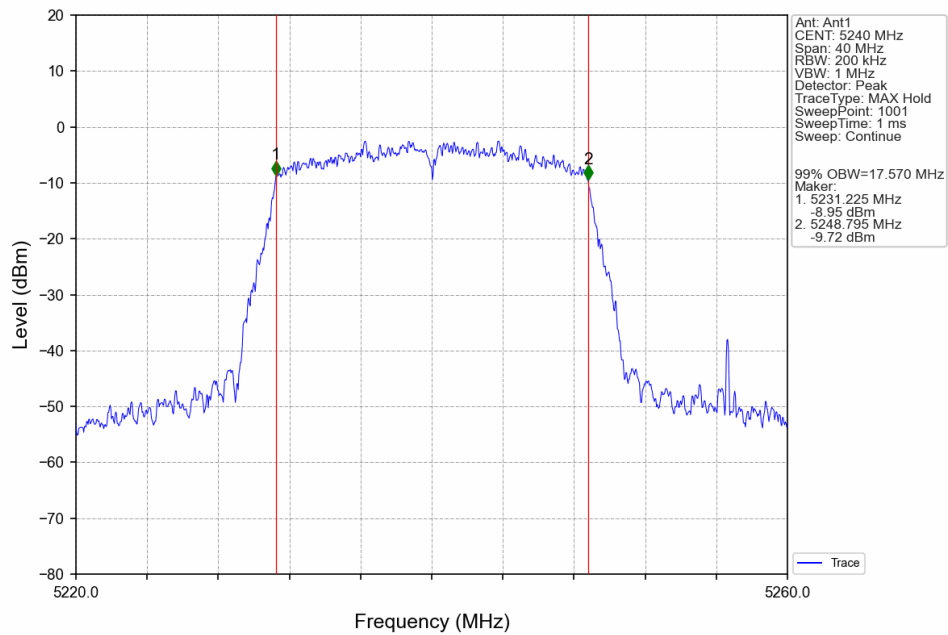
802.11ax(HEW20)_LCH_5180MHz_SU_/_Ant1_NTNV



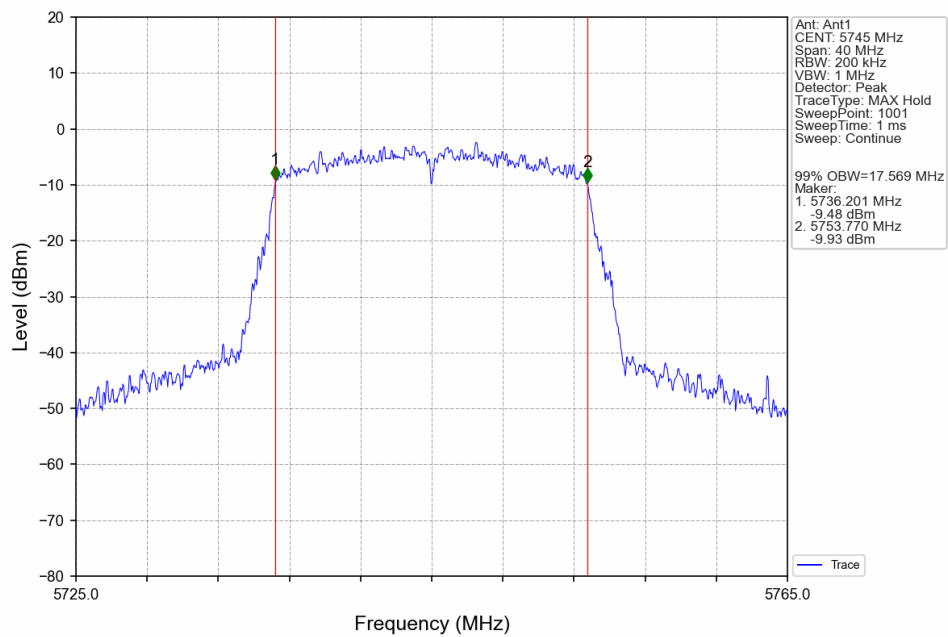
802.11ax(HEW20)_MCH_5200MHz_SU_/_Ant1_NTNV



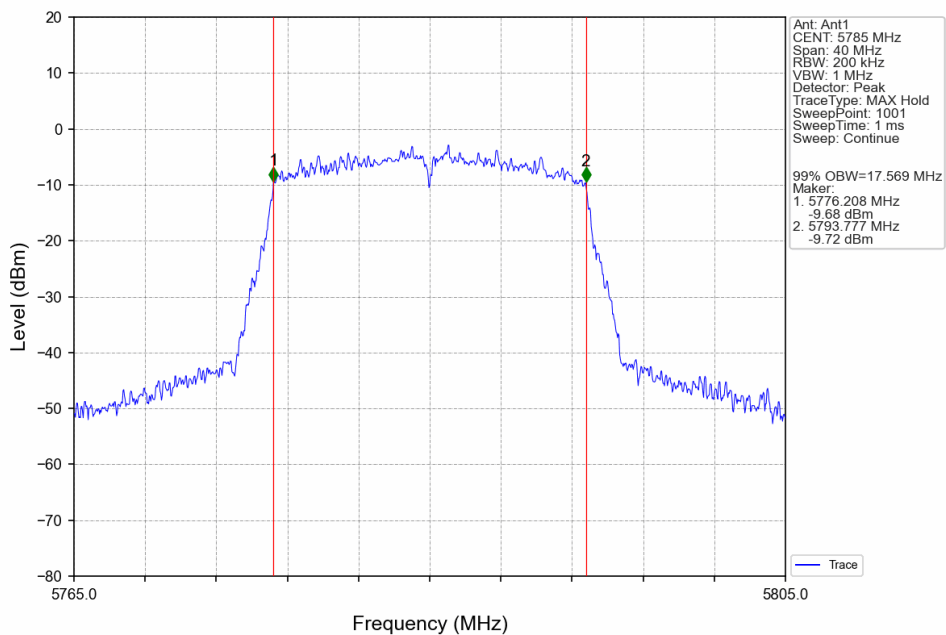
802.11ax(HEW20)_HCH_5240MHz_SU / Ant1_NTNV



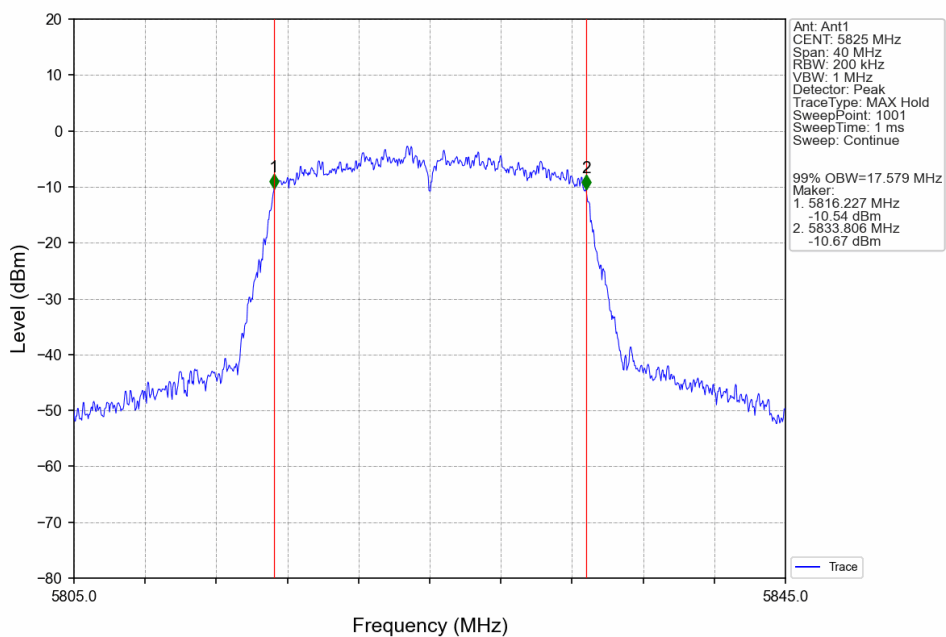
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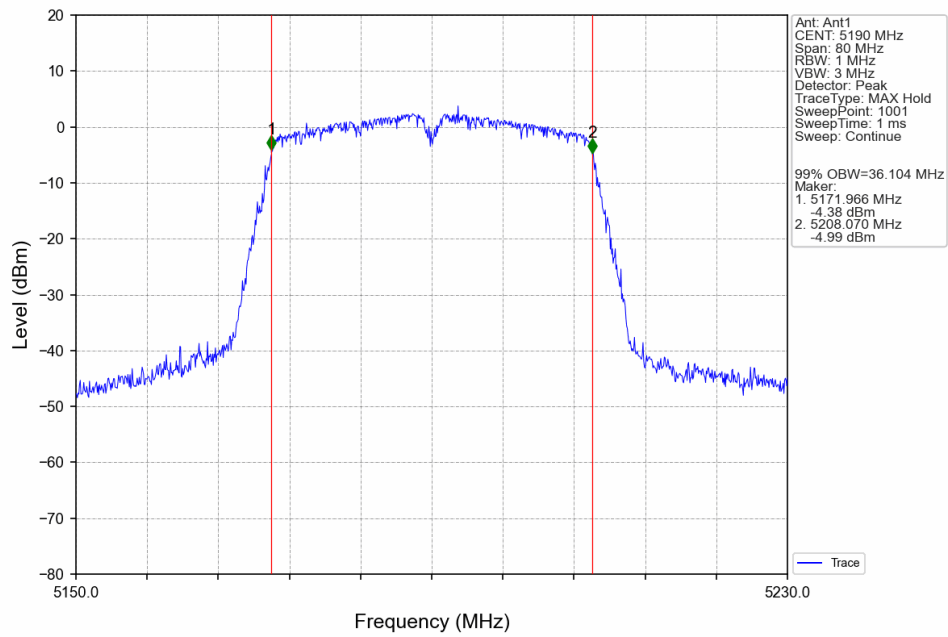
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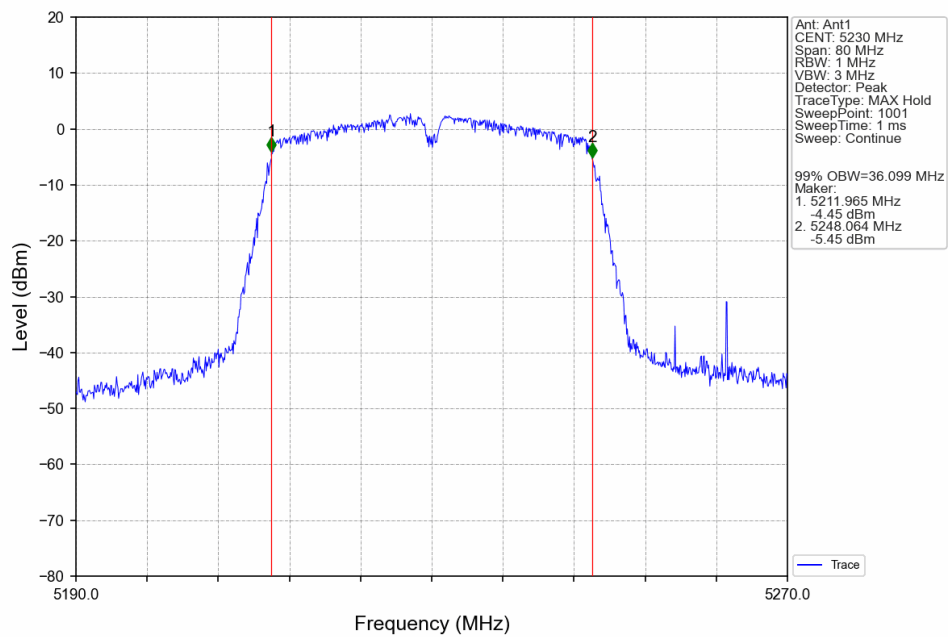
802.11ax(HEW20)_HCH_5825MHz_SU / Ant1_NTNV



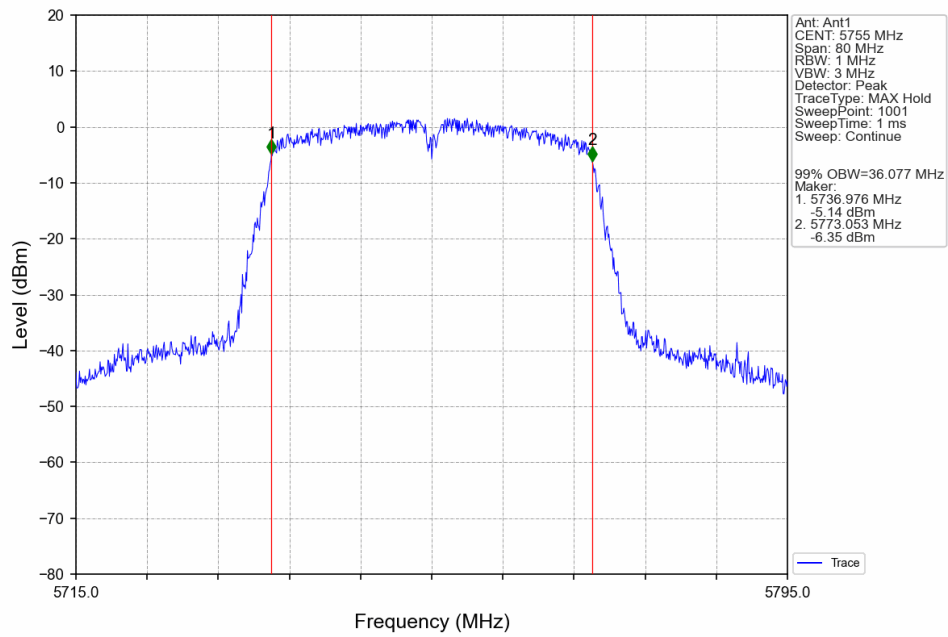
802.11ax(HEW40)_LCH_5190MHz_SU_/_Ant1_NTNV



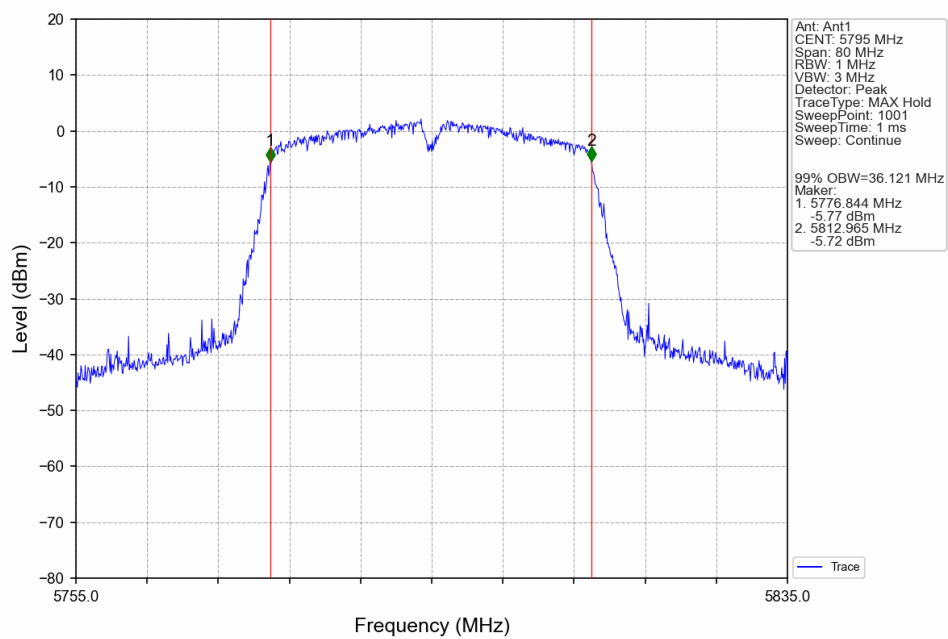
802.11ax(HEW40)_HCH_5230MHz_SU_/_Ant1_NTNV



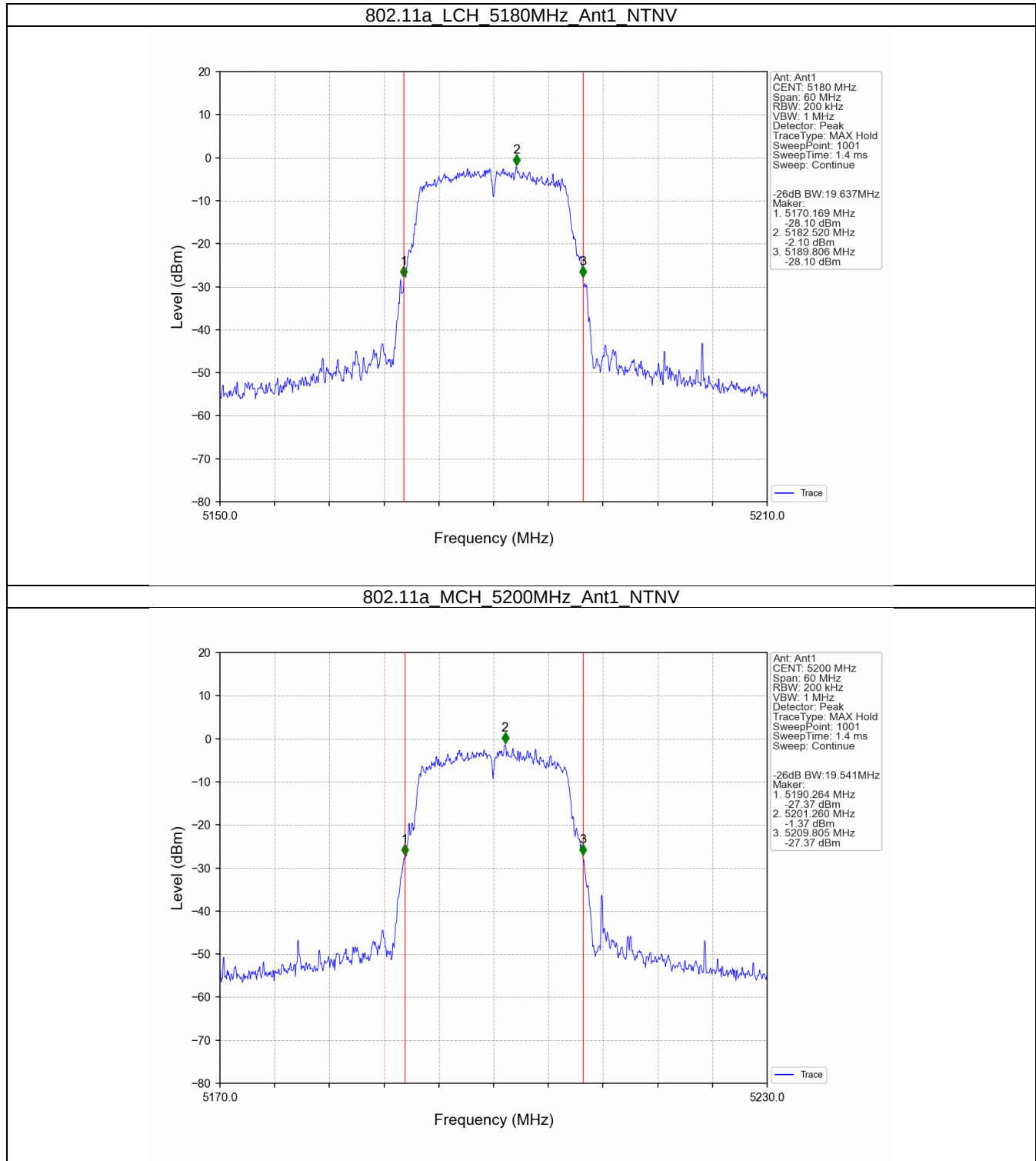
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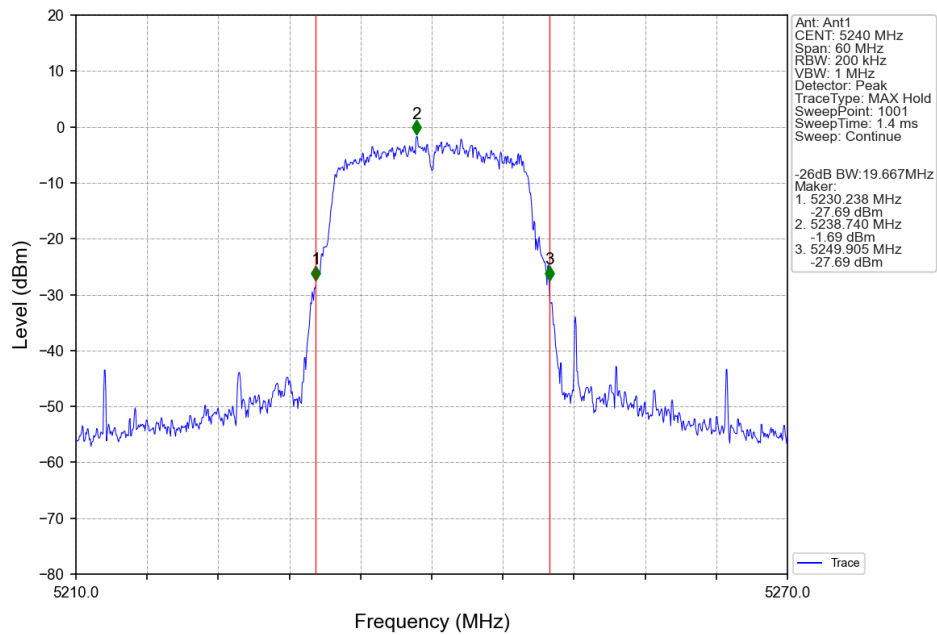
802.11ax(HEW40)_HCH_5795MHz_SU_/_Ant1_NTNV



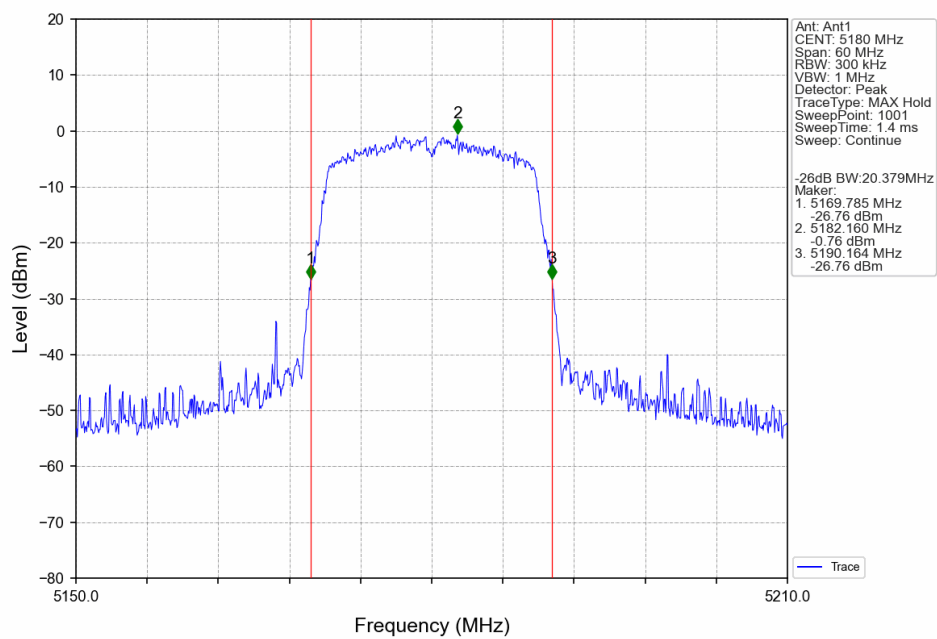
2.2.2 26dB BW



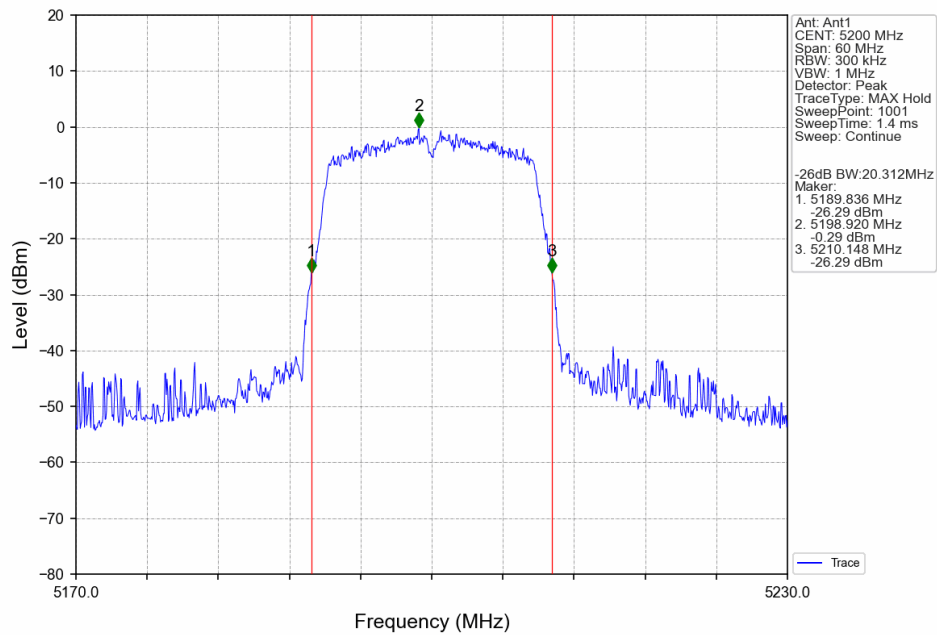
802.11a_HCH_5240MHz_Ant1_NTNV



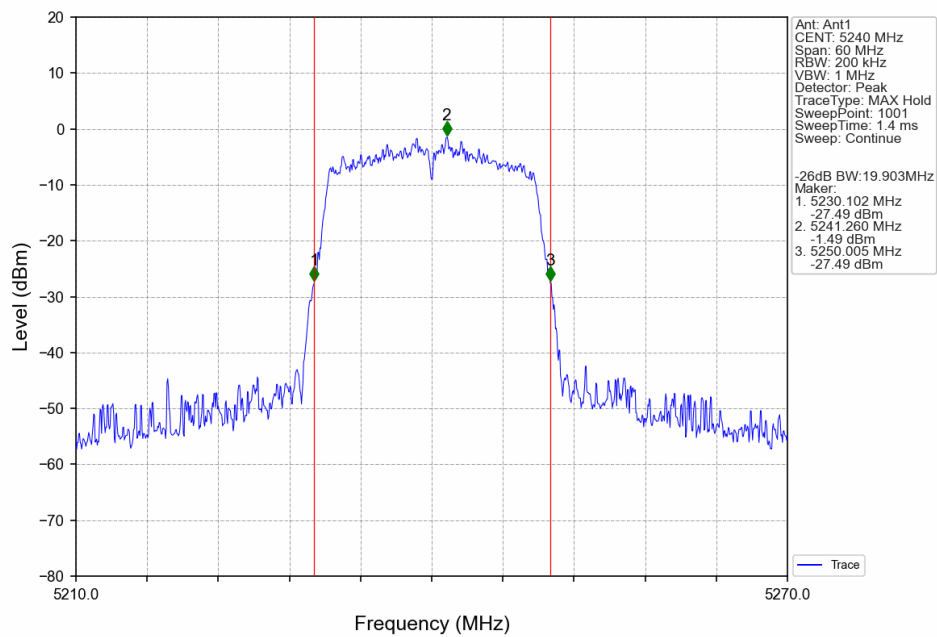
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



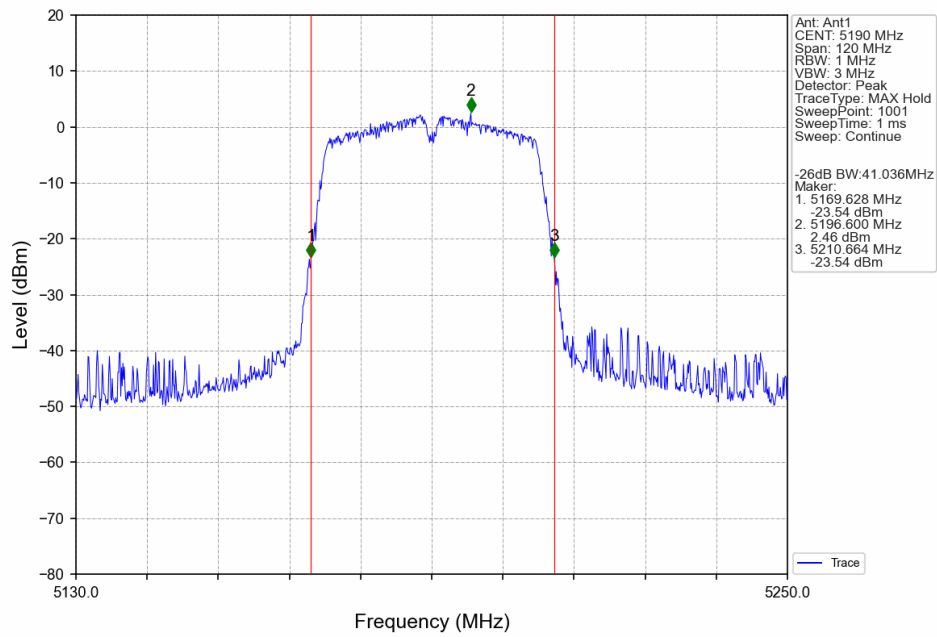
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



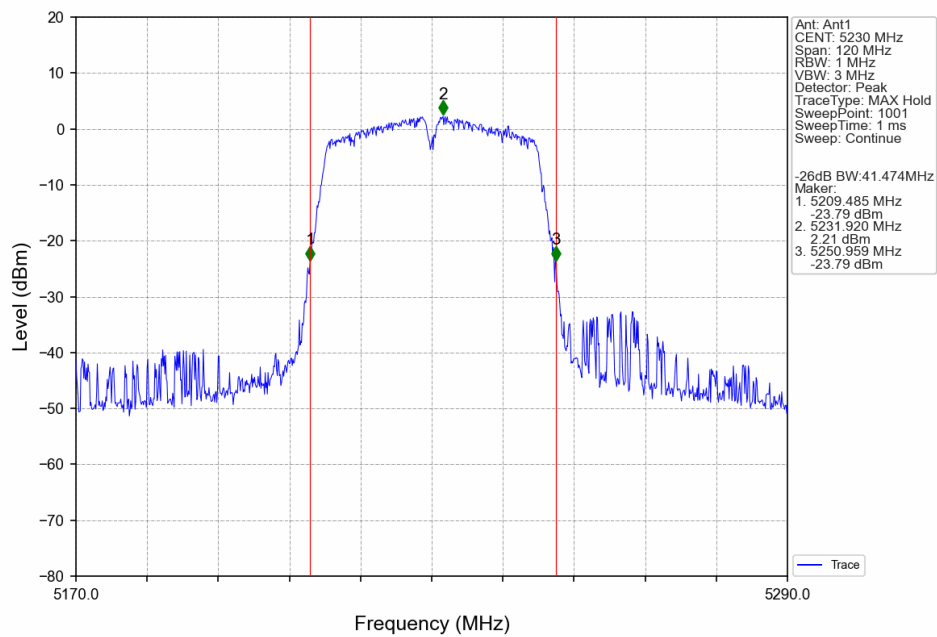
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



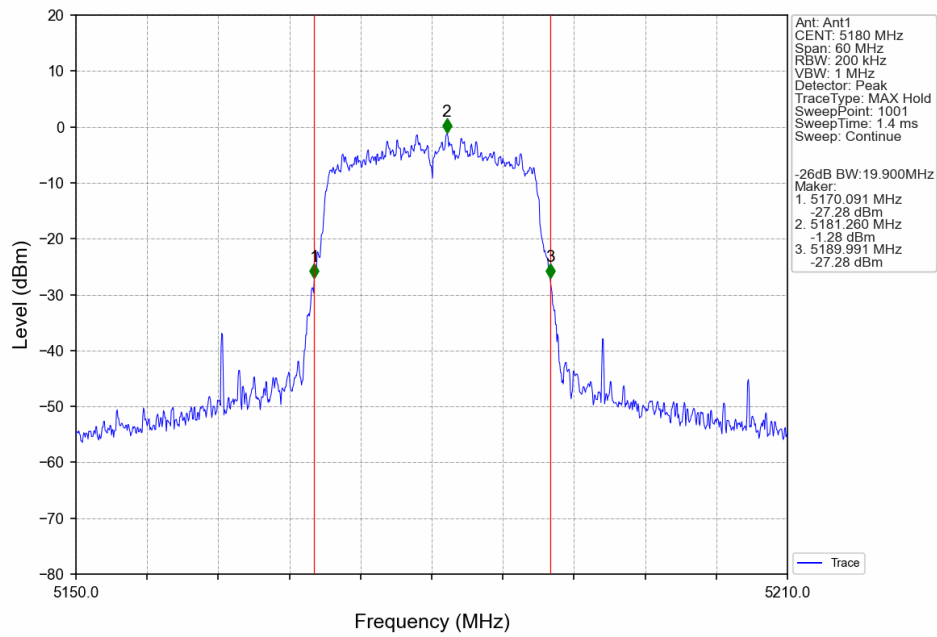
802.11n(HT40) LCH 5190MHz Ant1 NTN



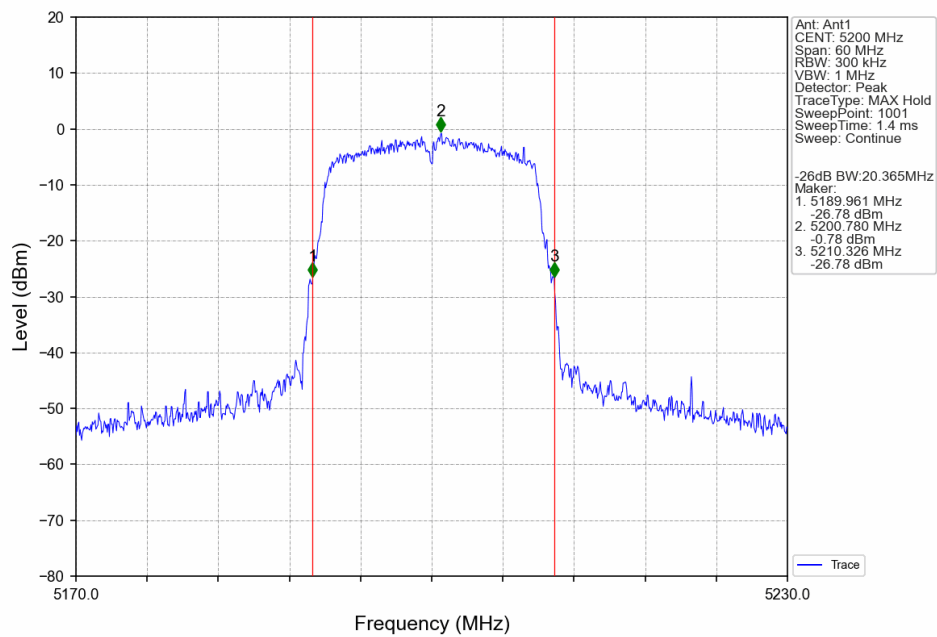
802.11n(HT40) HCH 5230MHz Ant1 NTN



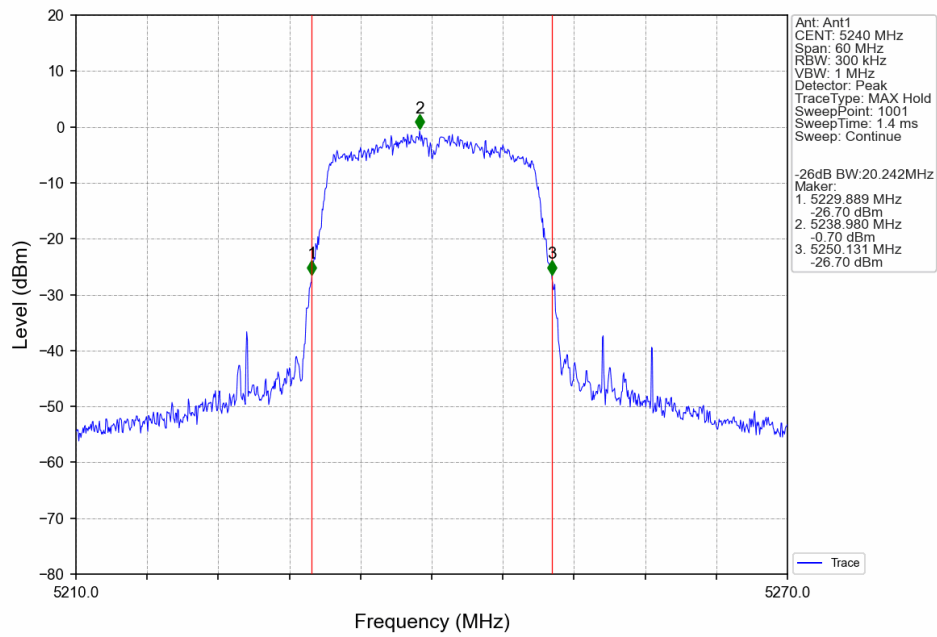
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



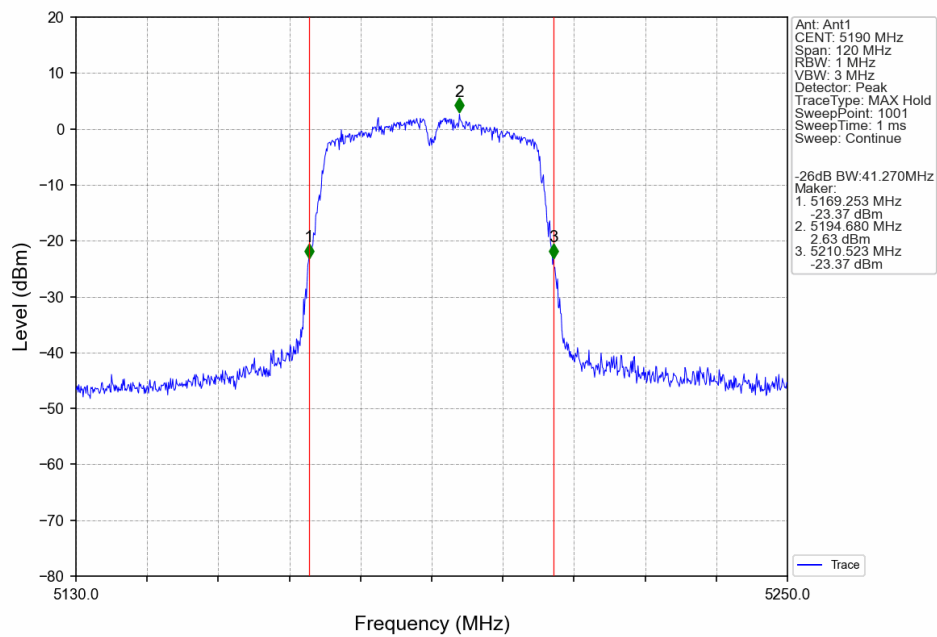
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



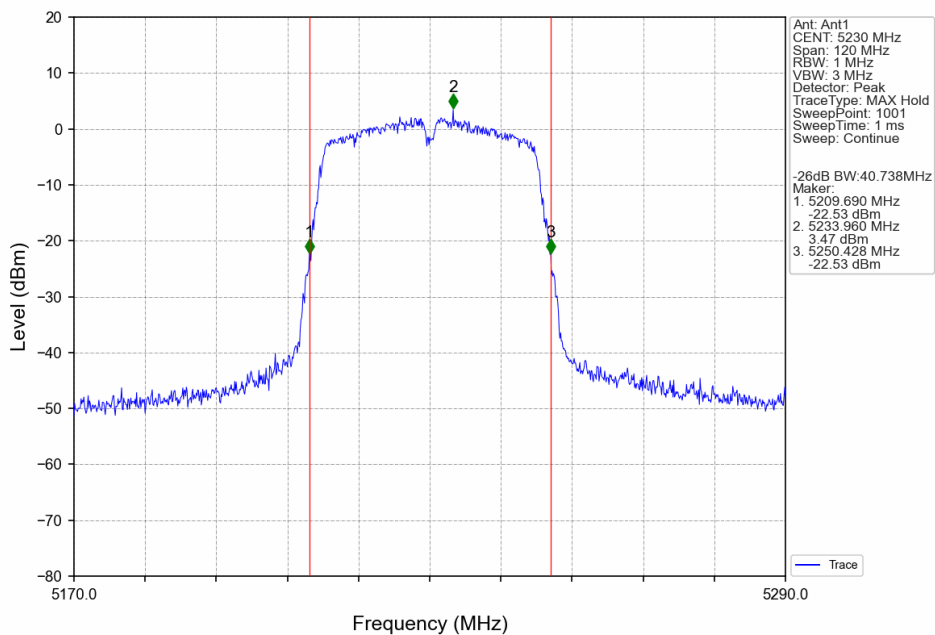
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



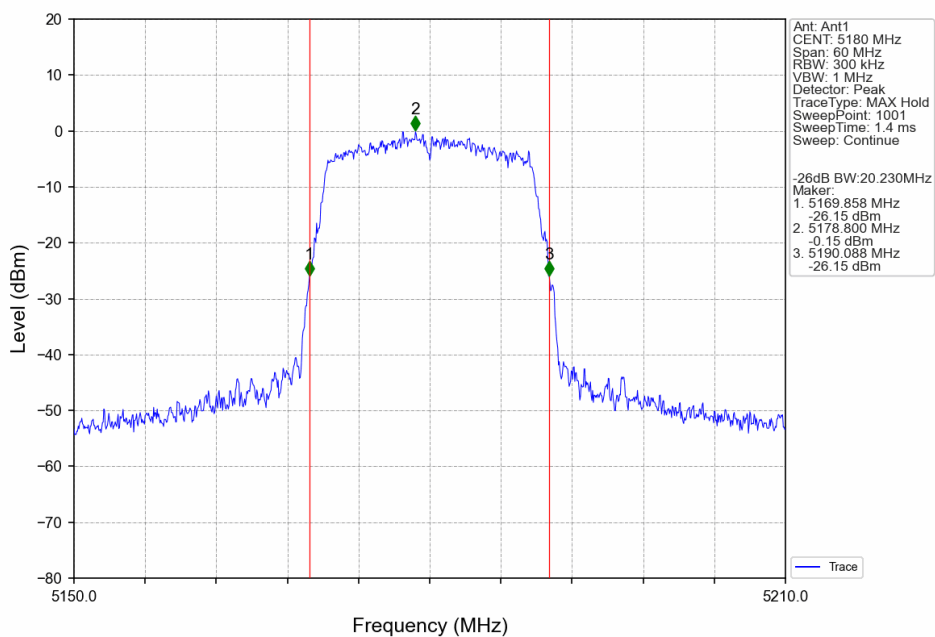
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



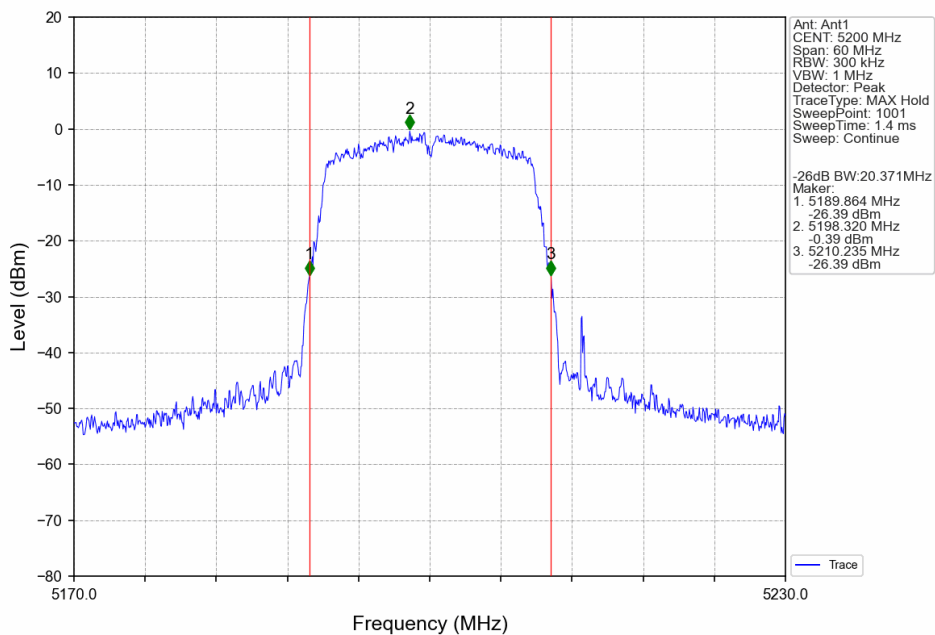
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ax(HEW20)_LCH_5180MHz_SU / Ant1_NTNV



802.11ax(HEW20)_MCH_5200MHz_SU / Ant1_NTNV



802.11ax(HEW20)_HCH_5240MHz_SU / Ant1_NTNV

